

Administrative Services Managers

11-3012.00



Description: Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, and other office support services.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Administrative Coordinator, Administrative Director, Administrative Manager

Job Zone

Title: 3 - Medium Preparation Needed

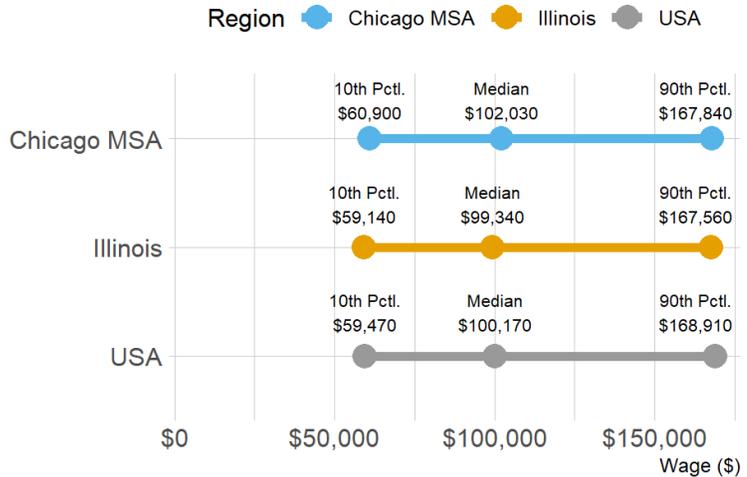
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, ADP Workforce Now, Atlassian JIRA, Autodesk AutoCAD, Database software, Google Docs, Google Drive, IBM Notes

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 11,700 | 1.73 | \$102,030 |
| Illinois | 14,460 | 1.61 | \$99,340 |
| USA | 224,620 | - | \$100,170 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|------------------|----|
| Set goals and deadlines for the department. | Daily | 74 |
| Prepare and review operational reports and schedules to ensure accuracy and efficiency. | Daily | 74 |
| Acquire, distribute and store supplies. | Daily | 68 |
| Analyze internal processes and recommend and implement procedural or policy changes to improve operations, such as supply changes or the disposal of records. | More than yearly | 67 |
| Conduct classes to teach procedures to staff. | More than yearly | 64 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Industrial Production Managers

11-3051.00



Description: Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Area Plant Manager, Assembly Manager, General Production Manager

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

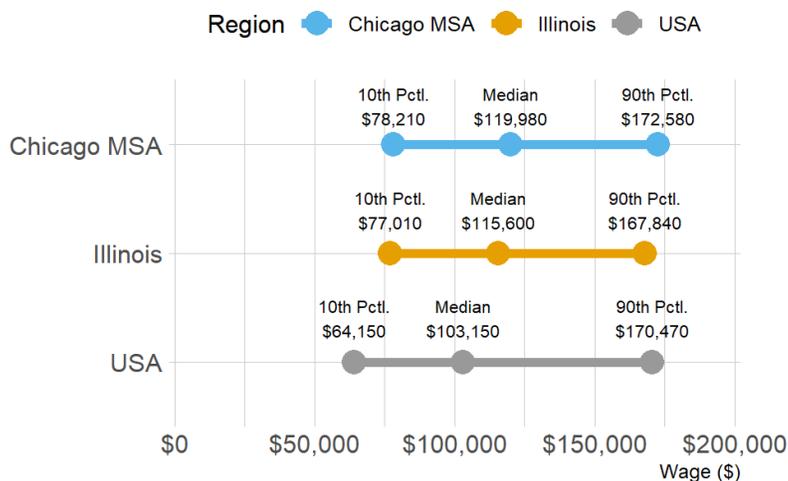
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: IPC J-STD-001 Requirements for Soldered Electrical & Electronic Assemblies

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe After Effects, Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop, Autodesk AutoCAD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,440 | 1.29 | \$119,980 |
| Illinois | 10,170 | 1.33 | \$115,600 |
| USA | 192,270 | - | \$103,150 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Direct or coordinate production, processing, distribution, or marketing activities of industrial organizations.

Daily 80

Review processing schedules or production orders to make decisions concerning inventory requirements, staffing requirements, work procedures, or duty assignments, considering budgetary limitations and time constraints.

Daily 80

Set and monitor product standards, examining samples of raw products or directing testing during processing, to ensure finished products are of prescribed quality.

Daily 80

Review operations and confer with technical or administrative staff to resolve production or processing problems.

Daily 77

Hire, train, evaluate, or discharge staff or resolve personnel grievances.

More than yearly 77

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Purchasing Managers

11-3061.00



Description: Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Category Purchasing Manager, Commodity Manager, Materials Director

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

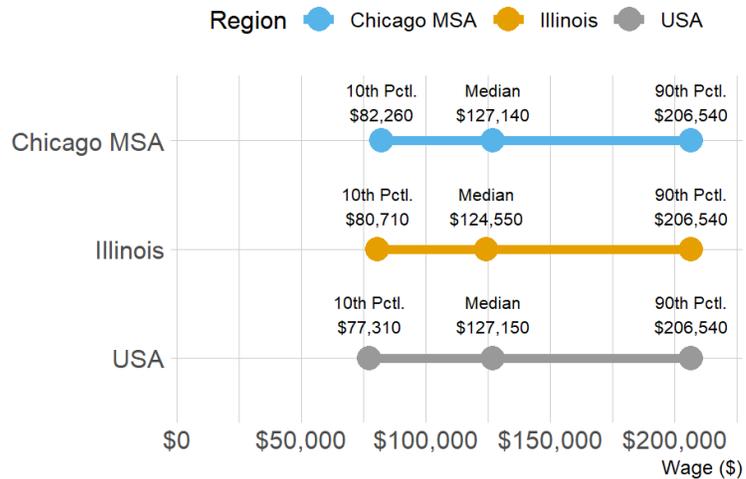
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Procurement Operations Specialist, Certified Purchasing Card Professional

Hot Technologies: Bowen & Groves M1 ERP, Database software, Enterprise resource planning ERP software, Epicor Vantage ERP, Microsoft Access, Microsoft Dynamics

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,820 | 1.35 | \$127,140 |
| Illinois | 3,670 | 1.33 | \$124,550 |
| USA | 69,310 | - | \$127,150 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|-------------------|----|
| Represent companies in negotiating contracts and formulating policies with suppliers. | More than monthly | 89 |
| Develop cost reduction strategies and savings plans. | More than yearly | 87 |
| Develop and implement purchasing and contract management instructions, policies, and procedures. | More than yearly | 85 |
| Prepare bid awards requiring board approval. | More than monthly | 84 |
| Direct and coordinate activities of personnel engaged in buying, selling, and distributing materials, equipment, machinery, and supplies. | Daily | 83 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Transportation, Storage, and Distribution Managers

11-3071.00



Description: Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Distribution Center Manager, Distribution Manager, Fleet Manager

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

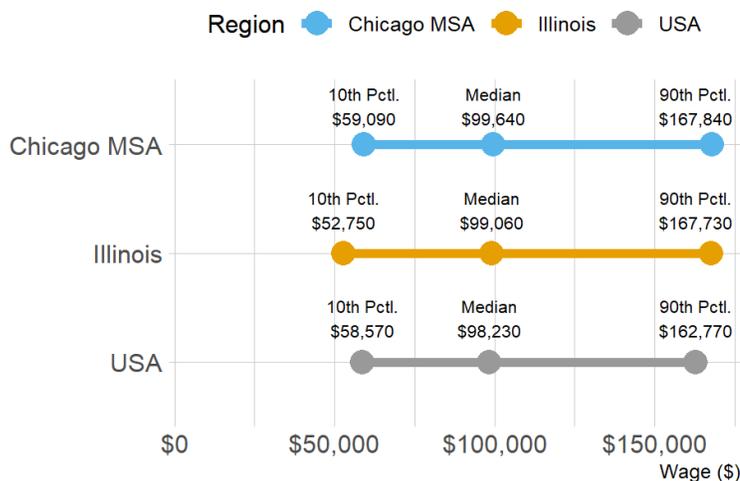
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Professional in Distribution and Warehouse Management, Certified Automotive Fleet Specialist, Certified Snow Professional

Hot Technologies: Autodesk AutoCAD Civil 3D, Bentley MicroStation, Database software, Enterprise resource planning ERP software, IBM Notes, Infor ERP Baan

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,630 | 1.52 | \$99,640 |
| Illinois | 9,000 | 1.56 | \$99,060 |
| USA | 144,640 | – | \$98,230 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Supervise the activities of workers engaged in receiving, storing, testing, and shipping products or materials.

Daily

91

Plan, develop, or implement warehouse safety and security programs and activities.

Daily

87

Inspect physical conditions of warehouses, vehicle fleets, or equipment and order testing, maintenance, repairs, or replacements.

Daily

86

Plan, organize, or manage the work of subordinate staff to ensure that the work is accomplished in a manner consistent with organizational requirements.

Daily

86

Collaborate with other departments to integrate logistics with business systems or processes, such as customer sales, order management, accounting, or shipping.

More than monthly

83

Human Resources Managers

11-3121.00



Description: Plan, direct, or coordinate human resources activities and staff of an organization.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Employee Relations Manager

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

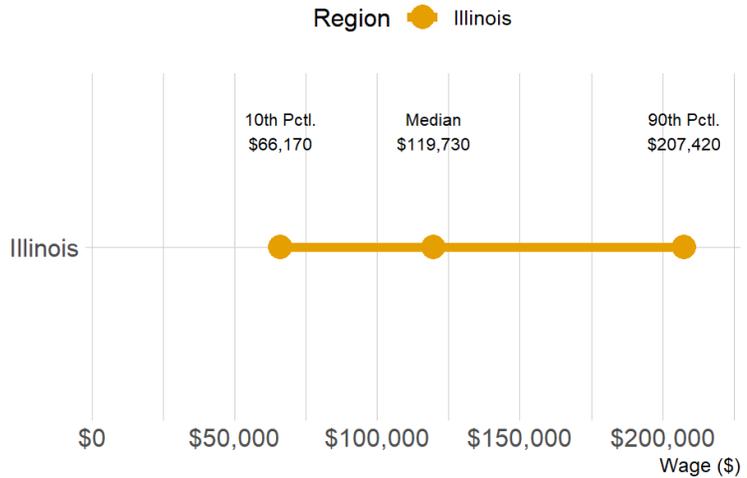
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Compensation Professional, Certified Executive Compensation Professional, Society for Human Resource Management Certified Professional

Hot Technologies: ADP Workforce Now, Deltek Vision, Facebook, IBM Cognos Impromptu, IBM Notes, IBM SPSS Statistics, Infor ERP SyteLine, Intuit QuickBooks

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 12,210 | 1.84 | \$119,730 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Serve as a link between management and employees by handling questions, interpreting and administering contracts and helping resolve work-related problems. | Several times daily | 96 |
| Advise managers on organizational policy matters, such as equal employment opportunity and sexual harassment, and recommend needed changes. | More than monthly | 93 |
| Analyze and modify compensation and benefits policies to establish competitive programs and ensure compliance with legal requirements. | More than yearly | 92 |
| Perform difficult staffing duties, including dealing with understaffing, refereeing disputes, firing employees, and administering disciplinary procedures. | More than monthly | 88 |
| Represent organization at personnel-related hearings and investigations. | More than yearly | 86 |



Construction Managers

11-9021.00



Description: Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Concrete Foreman, Construction Area Manager, Construction Foreman

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

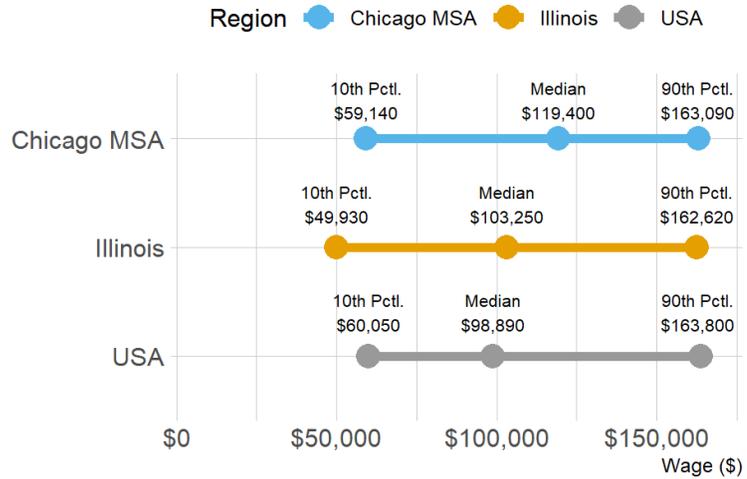
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Construction & Demolition Materials - Technical Associate, Certified Construction Manager, Construction Site Safety Orientation

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Creative Cloud, Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk Revit, Cadsoft Design/Build

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 11,230 | 1.31 | \$119,400 |
| Illinois | 14,120 | 1.24 | \$103,250 |
| USA | 284,750 | - | \$98,890 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------------------|----|
| Plan, schedule, or coordinate construction project activities to meet deadlines. | Daily | 95 |
| Prepare and submit budget estimates, progress reports, or cost tracking reports. | More than monthly | 93 |
| Interpret and explain plans and contract terms to representatives of the owner or developer, including administrative staff, workers, or clients. | More than weekly | 92 |
| Direct and supervise construction or related workers. | Daily | 87 |
| Confer with supervisory personnel, owners, contractors, or design professionals to discuss and resolve matters, such as work procedures, complaints, or construction problems. | More than weekly | 84 |

Natural Sciences Managers

11-9121.00



Description: Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Analytical Services Manager, Chemical Engineer Supervisor

Job Zone

Title: 5 - Extensive Preparation Needed

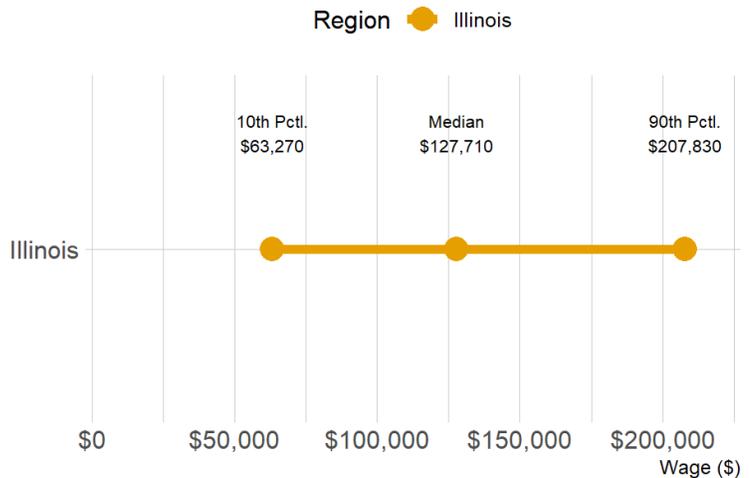
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Photoshop, ESRI ArcGIS software, IBM SPSS Statistics

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 2,440 | 0.82 | \$127,710 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Hire, supervise, or evaluate engineers, technicians, researchers, or other staff. | More than yearly | 86 |
| Design or coordinate successive phases of problem analysis, solution proposals, or testing. | More than monthly | 85 |
| Plan or direct research, development, or production activities. | Daily | 84 |
| Review project activities and prepare and review research, testing, or operational reports. | Daily | 82 |
| Confer with scientists, engineers, regulators, or others to plan or review projects or to provide technical assistance. | More than weekly | 81 |

Social and Community Service Managers

11-9151.00



Description: Plan, direct, or coordinate the activities of a social service program or community outreach organization.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Adoption Services Manager, Child Welfare Services Director

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

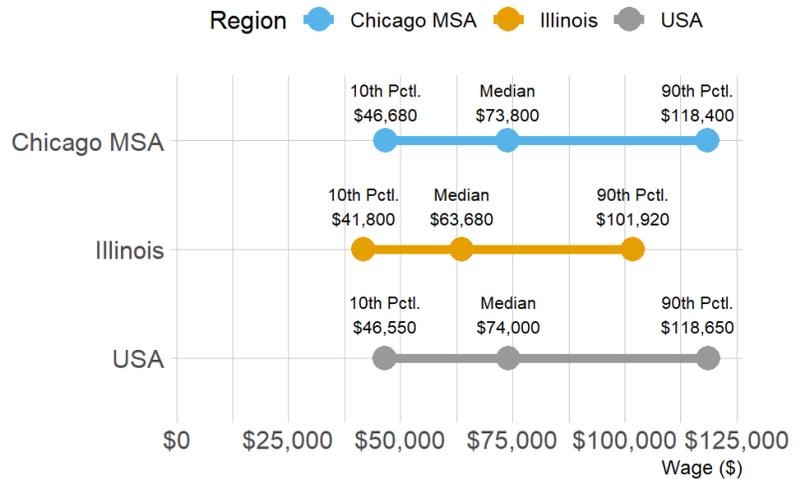
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified in Volunteer Administration, Certified Credit Union Facilitator, Certified Credit Union Board Member

Hot Technologies: Healthcare common procedure coding system HCPCS, Microsoft Access, Microsoft Dynamics, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 4,240 | 0.90 | \$73,800 |
| Illinois | 5,740 | 0.92 | \$63,680 |
| USA | 156,400 | - | \$74,000 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Direct activities of professional and technical staff members and volunteers. | Daily | 87 |
| Establish and oversee administrative procedures to meet objectives set by boards of directors or senior management. | Daily | 87 |
| Evaluate the work of staff and volunteers to ensure that programs are of appropriate quality and that resources are used effectively. | Daily | 86 |
| Participate in the determination of organizational policies regarding such issues as participant eligibility, program requirements, and program benefits. | More than monthly | 85 |
| Prepare and maintain records and reports, such as budgets, personnel records, or training manuals. | More than monthly | 84 |

Emergency Management Directors

11-9161.00



Description: Plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural disasters.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Emergency Management Coordinator

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

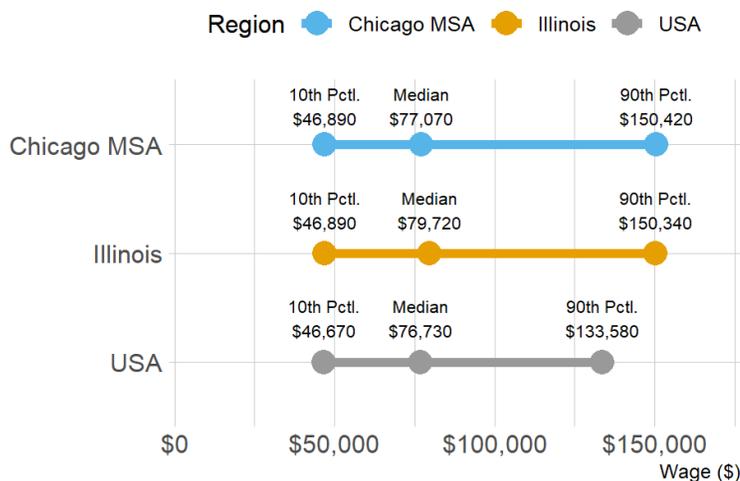
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Healthcare Emergency Professional, Associate in Risk Management for Public Entities, Certified Public-Safety Executive

Hot Technologies: ESRI ArcGIS software, Microsoft Office Suite, Microsoft SharePoint, Sungard Assurance

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 250 | 0.81 | \$77,070 |
| Illinois | 390 | 0.94 | \$79,720 |
| USA | 10,320 | - | \$76,730 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Keep informed of activities or changes that could affect the likelihood of an emergency, as well as those that could affect response efforts and details of plan implementation.

Daily **88**

Prepare emergency situation status reports that describe response and recovery efforts, needs, and preliminary damage assessments.

More than yearly **88**

Prepare plans that outline operating procedures to be used in response to disasters or emergencies, such as hurricanes, nuclear accidents, and terrorist attacks, and in recovery from these events.

More than yearly **87**

Coordinate disaster response or crisis management activities, such as ordering evacuations, opening public shelters, and implementing special needs plans and programs.

More than yearly **87**

Develop and maintain liaisons with municipalities, county departments, and similar entities to facilitate plan development, response effort coordination, and exchanges of personnel and equipment.

More than yearly **86**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Claims Adjusters, Examiners, and Investigators

13-1031.00



Description: Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Claim Representative, Claims Adjuster, Claims Analyst

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

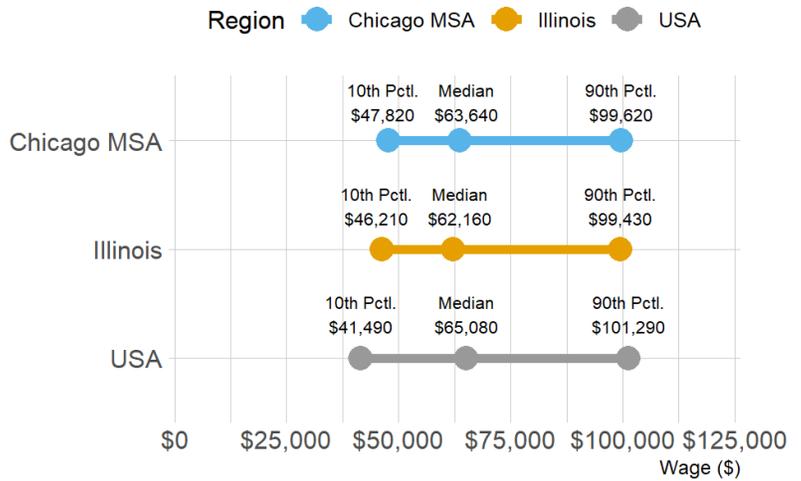
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Associate in Claims - Management, Certified Fraud Examiner, Accredited Insurance Examiner, Associate, Life and Health Claims

Hot Technologies: 4n6xprrt Systems
 StiffCalcs, ADP software, ARSoftware
 WinSMAC, CAD Zone Insurance, CCC
 Pathways Appraisal Quality Solution

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,340 | 0.88 | \$63,640 |
| Illinois | 9,480 | 0.85 | \$62,160 |
| USA | 278,140 | - | \$65,080 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|---------------------|-------------------------|
| Examine claims forms and other records to determine insurance coverage. | Several times daily | 96 |
| Analyze information gathered by investigation and report findings and recommendations. | Daily | 95 |
| Review police reports, medical treatment records, medical bills, or physical property damage to determine the extent of liability. | Several times daily | 93 |
| Investigate and assess damage to property and create or review property damage estimates. | Several times daily | 93 |
| Interview or correspond with agents and claimants to correct errors or omissions and to investigate questionable claims. | Several times daily | 92 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Compliance Officers

13-1041.00



Description: Examine, evaluate, and investigate eligibility for or conformity with laws and regulations governing contract compliance of licenses and permits.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Driver Examiner, Driver License Agent, Driver License Examiner

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

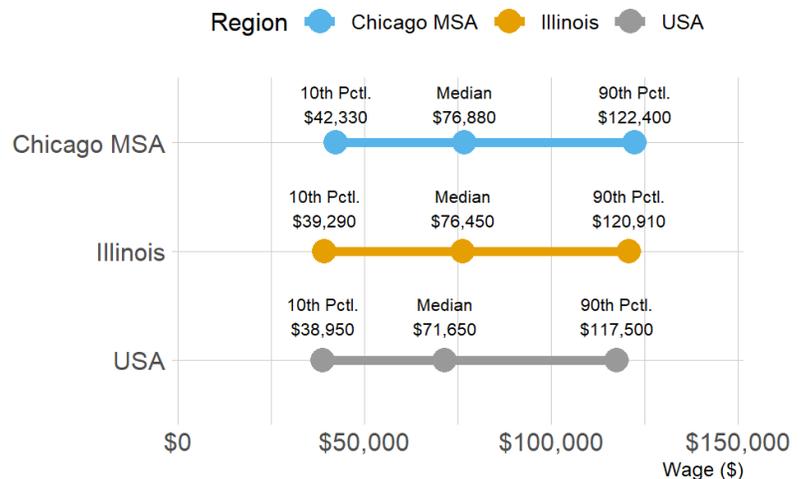
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified FISMA Compliance Practitioner, The Certified Information Privacy Professional, Certified Healthcare Billing and Management Executive

Hot Technologies: Database software, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,020 | 0.70 | \$76,880 |
| Illinois | 8,560 | 0.64 | \$76,450 |
| USA | 334,340 | – | \$71,650 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Warn violators of infractions or penalties. | More than weekly | 88 |
| Evaluate applications, records, or documents to gather information about eligibility or liability issues. | Hourly or more | 88 |
| Advise licensees or other individuals or groups concerning licensing, permit, or passport regulations. | Daily | 87 |
| Prepare reports of activities, evaluations, recommendations, or decisions. | Daily | 86 |
| Report law or regulation violations to appropriate boards or agencies. | More than monthly | 84 |

Cost Estimators

13-1051.00



Description: Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Acquisition Cost Estimator, Construction Estimator, Cost Analyst

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

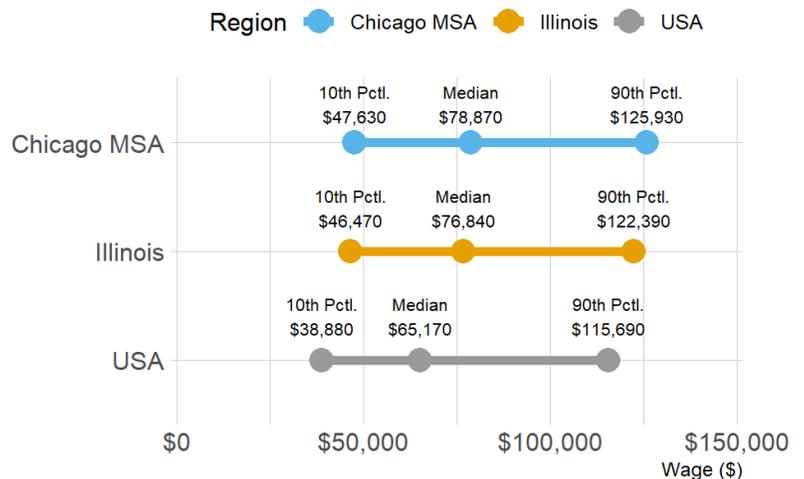
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Professional Cost Estimator/Analyst, Certified Cost Technician

Hot Technologies: Adobe Systems Adobe Acrobat, Autodesk AutoCAD, Autodesk Revit, Computer aided design and drafting CADD software, ConEst IntelliBid Design Build

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 4,350 | 0.69 | \$78,870 |
| Illinois | 5,570 | 0.67 | \$76,840 |
| USA | 208,950 | – | \$65,170 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Collect historical cost data to estimate costs for current or future products.

More than monthly

89

Consult with clients, vendors, personnel in other departments, or construction foremen to discuss and formulate estimates and resolve issues.

More than weekly

88

Analyze blueprints and other documentation to prepare time, cost, materials, and labor estimates.

Daily

87

Prepare estimates used by management for purposes such as planning, organizing, and scheduling work.

More than weekly

87

Confer with engineers, architects, owners, contractors, and subcontractors on changes and adjustments to cost estimates.

More than weekly

84

Human Resources Specialists

13-1071.00



Description: Recruit, screen, interview, or place individuals within an organization. May perform other activities in multiple human resources areas.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Corporate Recruiter, Employment Representative

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

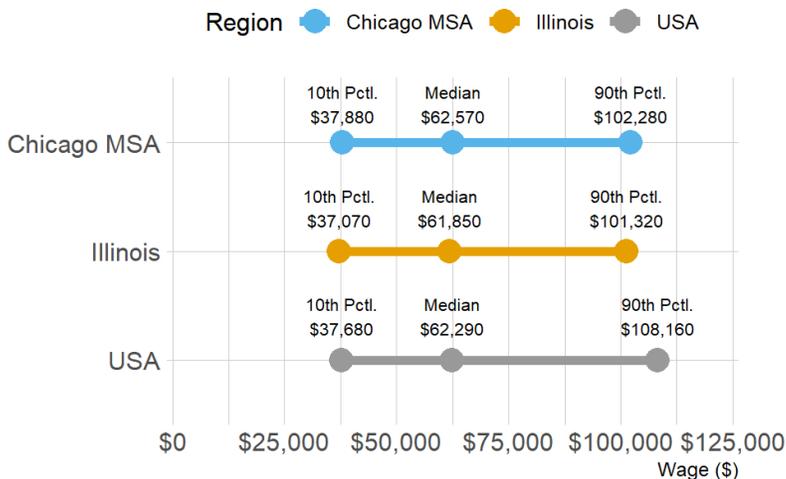
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Associate Certified Outsourcing Professional, Certified Professional in Online Job Search and Reputation Management

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 22,230 | 1.00 | \$62,570 |
| Illinois | 29,200 | 0.99 | \$61,850 |
| USA | 740,830 | - | \$62,290 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|-------------------|----|
| Interpret and explain human resources policies, procedures, laws, standards, or regulations. | More than weekly | 93 |
| Hire employees and process hiring-related paperwork. | More than monthly | 90 |
| Maintain current knowledge of Equal Employment Opportunity (EEO) and affirmative action guidelines and laws, such as the Americans with Disabilities Act (ADA). | More than yearly | 89 |
| Prepare or maintain employment records related to events, such as hiring, termination, leaves, transfers, or promotions, using human resources management system software. | More than monthly | 87 |
| Address employee relations issues, such as harassment allegations, work complaints, or other employee concerns. | More than monthly | 86 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Logisticians

13-1081.00



Description: Analyze and coordinate the ongoing logistical functions of a firm or organization.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Client Services Administrator, Logistician, Production Planner

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

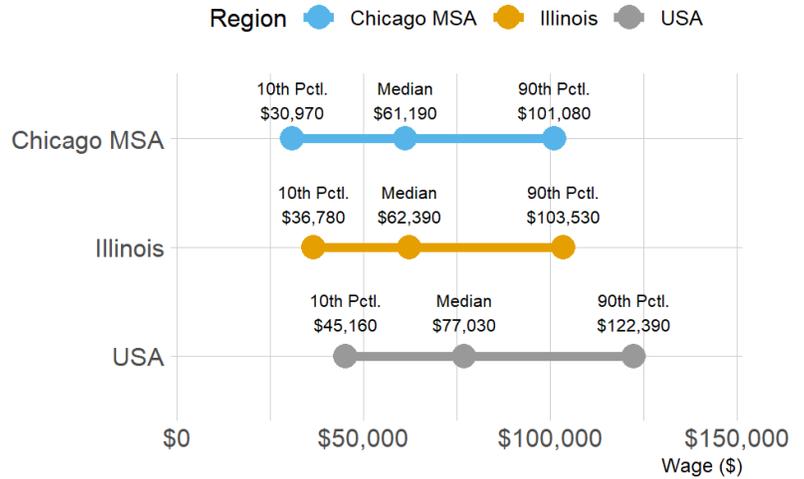
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Logistics Technician

Hot Technologies: Autodesk AutoCAD, Enterprise resource planning ERP software, IBM Cognos Impromptu, Intuit QuickBooks, Microsoft Access, Microsoft Dynamics

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 8,620 | 1.51 | \$61,190 |
| Illinois | 11,460 | 1.52 | \$62,390 |
| USA | 189,320 | - | \$77,030 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|-------------------|----|
| Maintain and develop positive business relationships with a customer's key personnel involved in, or directly relevant to, a logistics activity. | Daily | 89 |
| Develop an understanding of customers' needs and take actions to ensure that such needs are met. | Daily | 87 |
| Develop proposals that include documentation for estimates. | More than yearly | 83 |
| Manage subcontractor activities, reviewing proposals, developing performance specifications, and serving as liaisons between subcontractors and organizations. | More than monthly | 83 |
| Direct availability and allocation of materials, supplies, and finished products. | More than monthly | 82 |



Management Analysts

13-1111.00



Description: Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Administrative Analyst, Business Analyst, Employment Programs Analyst

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

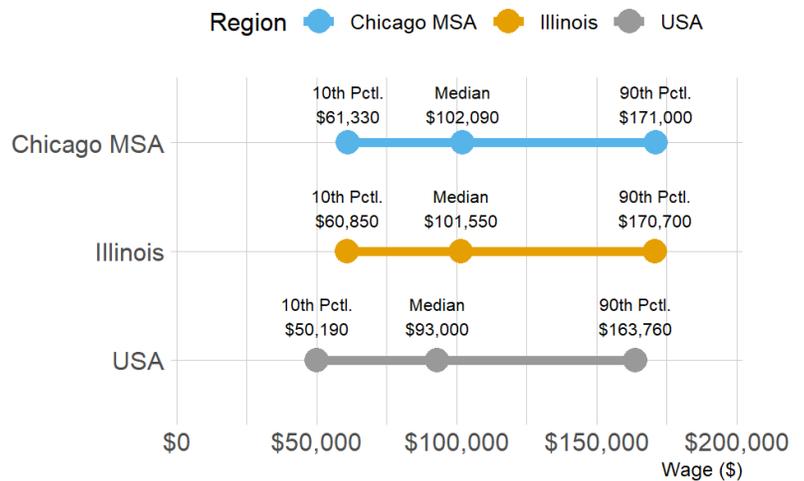
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Certified Associate in Project Management, Certified Management Accountant, Certified Human Resource Analyst

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe InDesign, ADP Workforce Now, Advanced business application programming ABAP, AJAX

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 40,340 | 1.75 | \$102,090 |
| Illinois | 46,990 | 1.53 | \$101,550 |
| USA | 768,450 | - | \$93,000 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Document findings of study and prepare recommendations for implementation of new systems, procedures, or organizational changes.

More than yearly **97**

Interview personnel and conduct on-site observation to ascertain unit functions, work performed, and methods, equipment, and personnel used.

More than monthly **95**

Analyze data gathered and develop solutions or alternative methods of proceeding.

More than monthly **93**

Confer with personnel concerned to ensure successful functioning of newly implemented systems or procedures.

More than monthly **91**

Plan study of work problems and procedures, such as organizational change, communications, information flow, integrated production methods, inventory control, or cost analysis.

More than monthly **91**



Compensation, Benefits, and Job Analysis

Specialists

13-1141.00



Description: Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Benefits Administrator, Benefits Analyst, Benefits Specialist

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

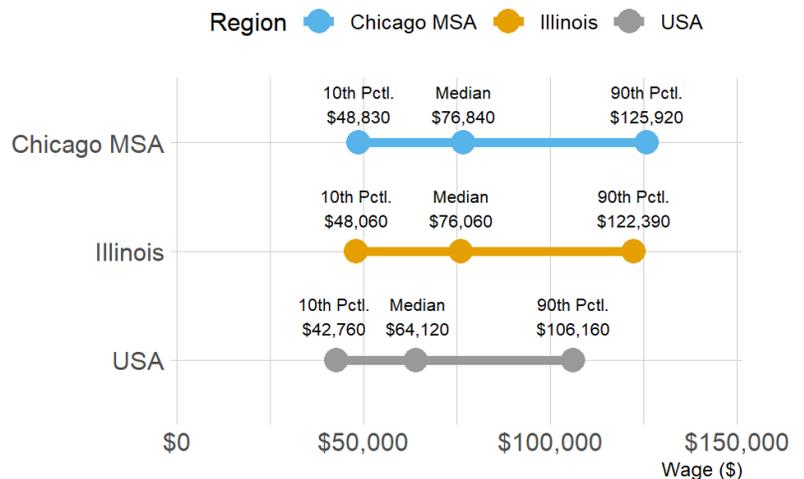
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Accredited Retirement Advisor, Certified IRA Services Professional, Certified Health Savings Account Expert, Accredited Pension Administrator

Hot Technologies: ADP Workforce Now, Healthcare common procedure coding system HCPCS, IBM Cognos Impromptu, IBM SPSS Statistics, Lawson ERP, LinkedIn

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,980 | 0.75 | \$76,840 |
| Illinois | 2,510 | 0.72 | \$76,060 |
| USA | 87,750 | - | \$64,120 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Evaluate job positions, determining classification, exempt or non-exempt status, and salary.

More than weekly

93

Ensure company compliance with federal and state laws, including reporting requirements.

More than yearly

92

Prepare occupational classifications, job descriptions, and salary scales.

More than weekly

89

Provide advice on the resolution of classification and salary complaints.

More than weekly

88

Research job and worker requirements, structural and functional relationships among jobs and occupations, and occupational trends.

Daily

86

Training and Development Specialists

13-1151.00



Description: Design or conduct work-related training and development programs to improve individual skills or organizational performance. May analyze organizational training needs or evaluate training effectiveness.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Computer Training Specialist, Corporate Trainer, E-Learning Developer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

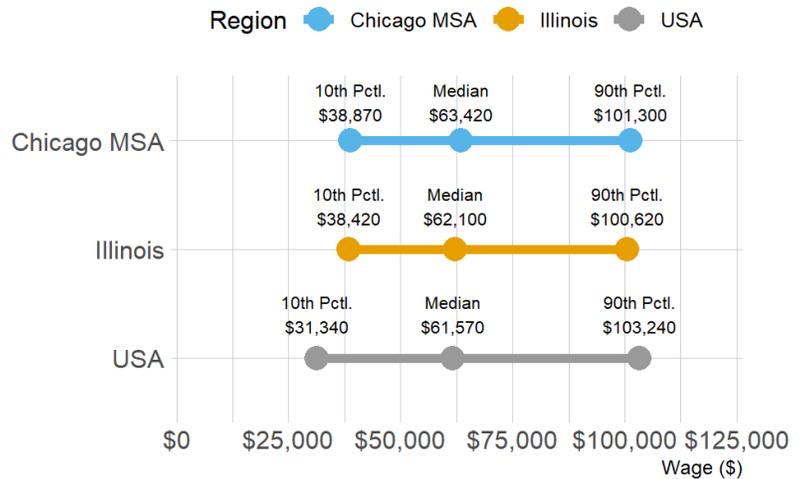
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Professional in Online Job Search and Reputation Management, Certified Employment Interview Consultant, Construction Site Safety Orientation

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe After Effects, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 9,100 | 0.90 | \$63,420 |
| Illinois | 11,800 | 0.88 | \$62,100 |
| USA | 336,030 | - | \$61,570 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Assess training needs through surveys, interviews with employees, focus groups, or consultation with managers, instructors, or customer representatives.

More than yearly **92**

Design, plan, organize, or direct orientation and training programs for employees or customers.

More than monthly **92**

Offer specific training programs to help workers maintain or improve job skills.

More than monthly **90**

Present information with a variety of instructional techniques or formats, such as role playing, simulations, team exercises, group discussions, videos, or lectures.

More than monthly **89**

Obtain, organize, or develop training procedure manuals, guides, or course materials, such as handouts or visual materials.

More than monthly **89**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Accountants and Auditors

13-2011.00



Description: Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Accountant, Accounting Officer, Audit Partner

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

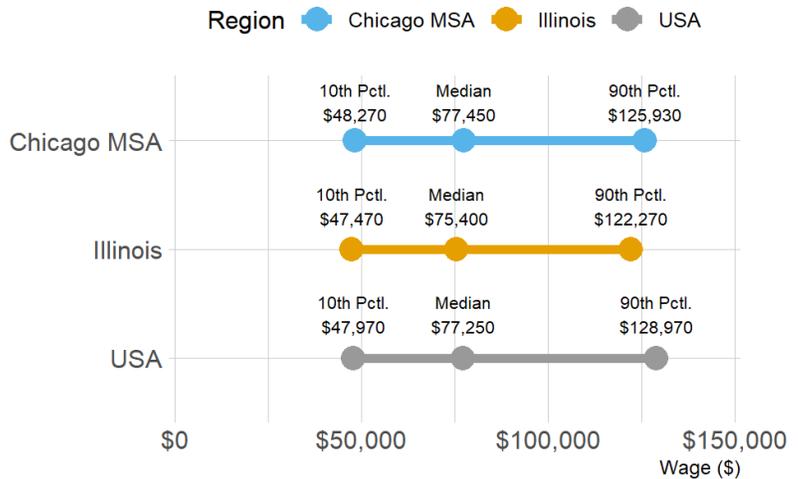
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certification in Control Self-Assessment, Accredited Business Accountant/Advisor, Associate in Risk Management for Public Entities

Hot Technologies: Accountants Templates JAZZ-It!, AcornSystems Corporate Performance Management, Adobe Systems Adobe Acrobat, ADP Workforce Now, Apache Solr

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 38,800 | 0.98 | \$77,450 |
| Illinois | 48,090 | 0.91 | \$75,400 |
| USA | 1,318,550 | – | \$77,250 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|---|-------------------|----|
| Prepare detailed reports on audit findings. | More than yearly | 92 |
| Report to management about asset utilization and audit results, and recommend changes in operations and financial activities. | More than yearly | 91 |
| Collect and analyze data to detect deficient controls, duplicated effort, extravagance, fraud, or non-compliance with laws, regulations, and management policies. | More than yearly | 90 |
| Inspect account books and accounting systems for efficiency, effectiveness, and use of accepted accounting procedures to record transactions. | More than yearly | 90 |
| Supervise auditing of establishments, and determine scope of investigation required. | More than monthly | 90 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Budget Analysts

13-2031.00



Description: Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Budget Analyst, Budget Coordinator, Budget Officer

Job Zone

Title: 4 - Considerable Preparation Needed

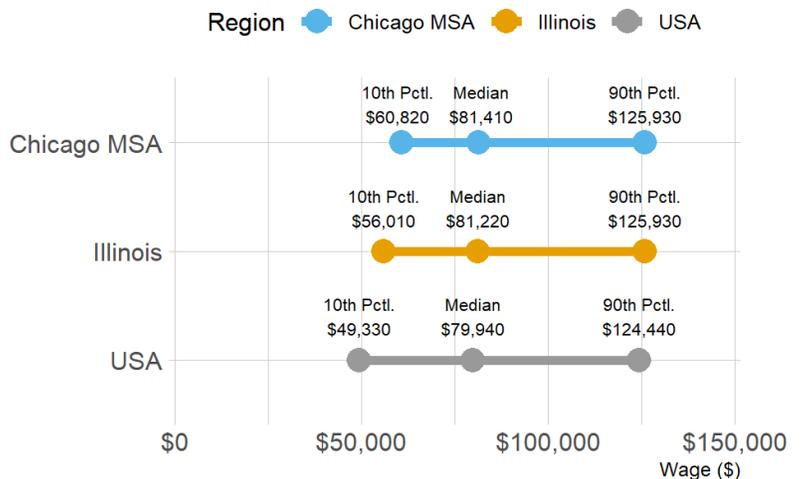
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adaptive Planning, and planning software, Budgeting, Business performance management BPM software, Enterprise resource planning ERP software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 580 | 0.41 | \$81,410 |
| Illinois | 900 | 0.48 | \$81,220 |
| USA | 47,440 | – | \$79,940 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Summarize budgets and submit recommendations for the approval or disapproval of funds requests. | More than yearly | 89 |
| Analyze monthly department budgeting and accounting reports to maintain expenditure controls. | More than monthly | 88 |
| Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. | More than monthly | 87 |
| Direct the preparation of regular and special budget reports. | More than monthly | 84 |
| Provide advice and technical assistance with cost analysis, fiscal allocation, and budget preparation. | More than monthly | 84 |

Financial Examiners

13-2061.00



Description: Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify, or authenticate records.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bank Examiner

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

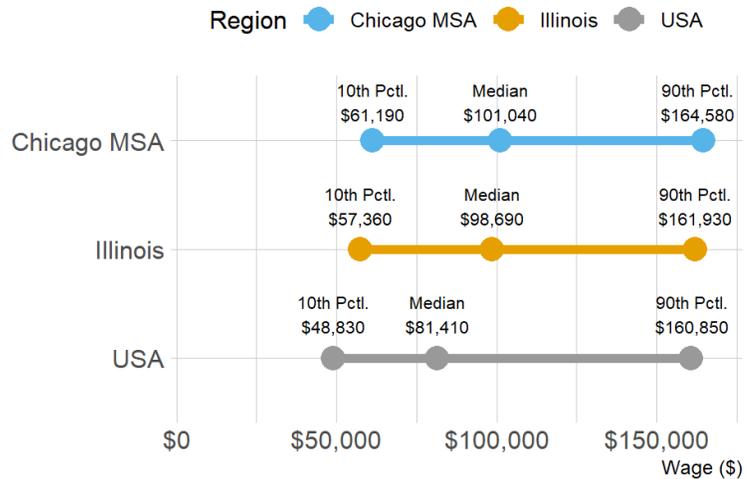
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Money Service Business Examiner, Certified Operations Examiner, Certified Examiner-In-Charge, Certified Management Accountant

Hot Technologies: Microsoft Access, Microsoft Office Suite, Microsoft SharePoint, SAP business and customer relations management software, Structured query language SQL

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,710 | 0.94 | \$101,040 |
| Illinois | 2,160 | 0.89 | \$98,690 |
| USA | 60,750 | - | \$81,410 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|------------------|----|
| Direct and participate in formal and informal meetings with bank directors, trustees, senior management, counsels, outside accountants, and consultants to gather information and discuss findings. | More than weekly | 95 |
|---|------------------|----|

| | | |
|---|-------------------|----|
| Recommend actions to ensure compliance with laws and regulations, or to protect solvency of institutions. | More than monthly | 93 |
|---|-------------------|----|

| | | |
|--|-------------------|----|
| Prepare reports, exhibits, and other supporting schedules that detail an institution's safety and soundness, compliance with laws and regulations, and recommended solutions to questionable financial conditions. | More than monthly | 89 |
|--|-------------------|----|

| | | |
|---|-------------------|----|
| Resolve problems concerning the overall financial integrity of banking institutions including loan investment portfolios, capital, earnings, and specific or large troubled accounts. | More than monthly | 85 |
|---|-------------------|----|

| | | |
|---|------------------|----|
| Investigate activities of institutions to enforce laws and regulations and to ensure legality of transactions and operations or financial solvency. | More than yearly | 83 |
|---|------------------|----|

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Computer and Information Research

Scientists

15-1221.00



Description: Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Computer Scientist, Computer Specialist, Control System Computer Scientist

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

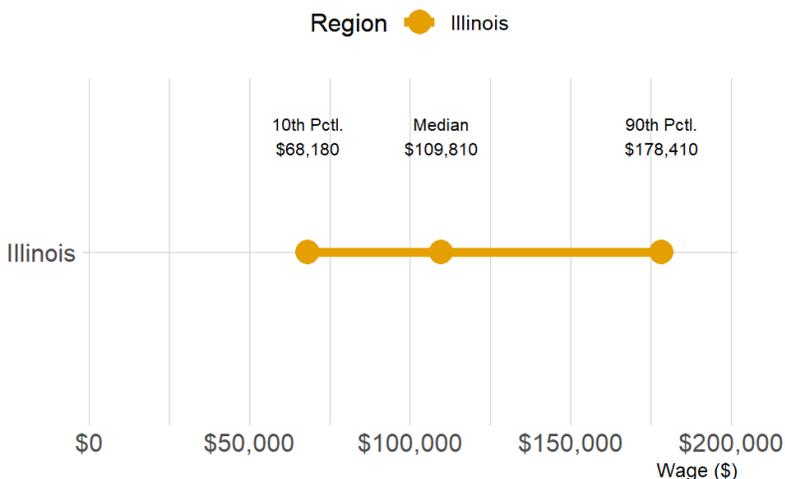
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Associate Computer Scientist, Associate - Data Science Version 2.0

Hot Technologies: Amazon DynamoDB, Amazon Elastic Compute Cloud EC2, Amazon Redshift, Amazon Web Services AWS software, Apache Cassandra, Apache Hadoop, Apache Hive

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 170 | 0.14 | \$109,810 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Analyze problems to develop solutions involving computer hardware and software. | Daily | 85 |
| Apply theoretical expertise and innovation to create or apply new technology, such as adapting principles for applying computers to new uses. | Daily | 78 |
| Assign or schedule tasks to meet work priorities and goals. | More than monthly | 75 |
| Meet with managers, vendors, and others to solicit cooperation and resolve problems. | More than weekly | 73 |
| Design computers and the software that runs them. | Hourly or more | 73 |

Actuaries

15-2011.00



Description: Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Actuarial Analyst, Actuarial Associate, Actuarial Consultant

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

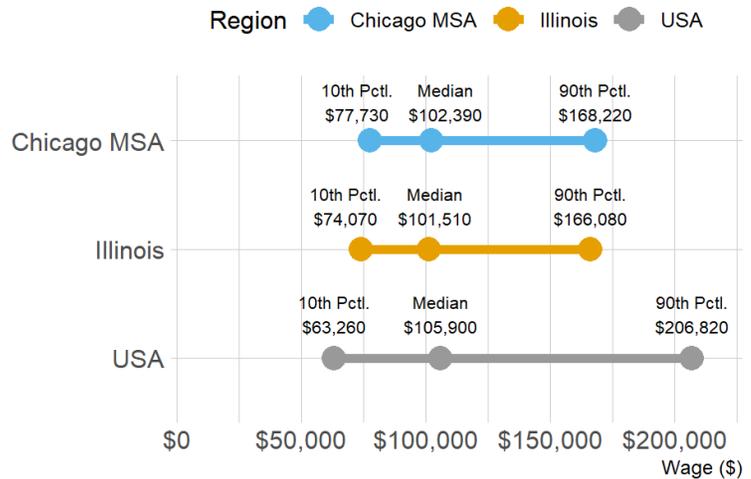
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Pension Consultant, Retirement Plans Associate, Associate, Secure Retirement Institute, Associate of the Society of Actuaries

Hot Technologies: C++, IBM SPSS Statistics, Microsoft Access, Microsoft Office Suite, Microsoft SQL Server, Microsoft Visual Basic

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,590 | 2.30 | \$102,390 |
| Illinois | 1,940 | 2.11 | \$101,510 |
| USA | 23,040 | - | \$105,900 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Ascertain premium rates required and cash reserves and liabilities necessary to ensure payment of future benefits.

More than yearly **94**

Design, review, and help administer insurance, annuity and pension plans, determining financial soundness and calculating premiums.

More than monthly **92**

Determine, or help determine, company policy, and explain complex technical matters to company executives, government officials, shareholders, policyholders, or the public.

More than yearly **88**

Provide advice to clients on a contract basis, working as a consultant.

Daily **86**

Analyze statistical information to estimate mortality, accident, sickness, disability, and retirement rates.

More than yearly **85**



Mathematicians

15-2021.00



Description: Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields using mathematical methods.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Computational Mathematician, Computational Scientist, Cryptographer

Job Zone

Title: 5 - Extensive Preparation Needed

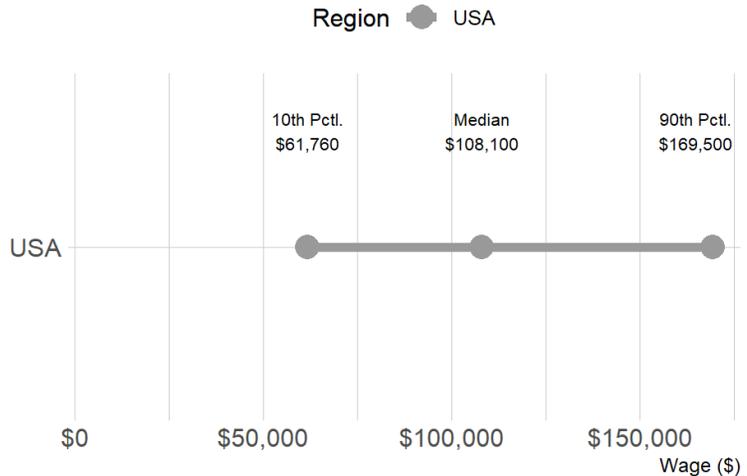
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Adobe Systems Adobe Photoshop, Apple macOS, Bash, C#, C++, Cascading style sheets CSS, Extensible markup language XML, Hypertext markup language HTML,

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 1,770 | - | \$108,100 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Address the relationships of quantities, magnitudes, and forms through the use of numbers and symbols. | Daily | 88 |
| Maintain knowledge in the field by reading professional journals, talking with other mathematicians, and attending professional conferences. | More than weekly | 84 |
| Disseminate research by writing reports, publishing papers, or presenting at professional conferences. | More than yearly | 84 |
| Apply mathematical theories and techniques to the solution of practical problems in business, engineering, the sciences, or other fields. | More than weekly | 83 |
| Develop mathematical or statistical models of phenomena to be used for analysis or for computational simulation. | More than weekly | 80 |



Operations Research Analysts

15-2031.00



Description: Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decisionmaking, policy formulation, or other managerial functions.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Advanced Analytics Associate, Analytical Strategist, Decision Analyst

Job Zone

Title: 5 - Extensive Preparation Needed

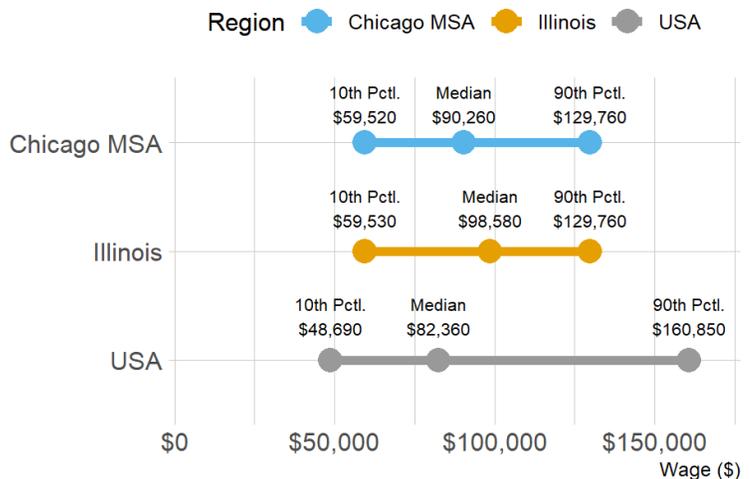
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Amazon Redshift, Apache Hadoop, Apache Hive, Apache Pig, Apple macOS, Bash, C++, Dassault Systemes CATIA, Database software, ESRI ArcGIS software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,740 | 0.93 | \$90,260 |
| Illinois | 3,970 | 1.01 | \$98,580 |
| USA | 98,700 | - | \$82,360 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------------------|----|
| Formulate mathematical or simulation models of problems, relating constants and variables, restrictions, alternatives, conflicting objectives, and their numerical parameters. | More than monthly | 91 |
| Perform validation and testing of models to ensure adequacy and reformulate models as necessary. | More than monthly | 89 |
| Collaborate with senior managers and decision makers to identify and solve a variety of problems and to clarify management objectives. | More than monthly | 88 |
| Present the results of mathematical modeling and data analysis to management or other end users. | More than monthly | 87 |
| Collaborate with others in the organization to ensure successful implementation of chosen problem solutions. | More than monthly | 85 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Statisticians

15-2041.00



Description: Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Demographer, Mathematical Statistician, Psychometric Consultant

Job Zone

Title: 5 - Extensive Preparation Needed

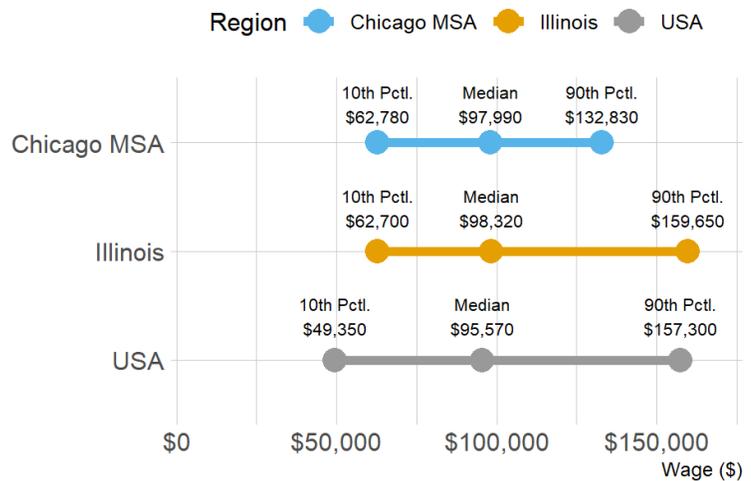
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Amazon Redshift, Apache Hadoop, Apache Pig, Apache Spark, C++, Common business oriented language COBOL, IBM SPSS Statistics, Linux, Microsoft Access

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 640 | 0.68 | \$97,990 |
| Illinois | 870 | 0.69 | \$98,320 |
| USA | 31,370 | - | \$95,570 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Analyze and interpret statistical data to identify significant differences in relationships among sources of information. | Daily | 91 |
| Identify relationships and trends in data, as well as any factors that could affect the results of research. | More than weekly | 87 |
| Determine whether statistical methods are appropriate, based on user needs or research questions of interest. | More than monthly | 87 |
| Prepare data for processing by organizing information, checking for inaccuracies, and adjusting and weighting the raw data. | More than weekly | 86 |
| Present statistical and nonstatistical results, using charts, bullets, and graphs, in meetings or conferences to audiences such as clients, peers, and students. | More than monthly | 86 |

Architects, Except Landscape and Naval

17-1011.00



Description: Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Architect, Design Architect, Planner

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

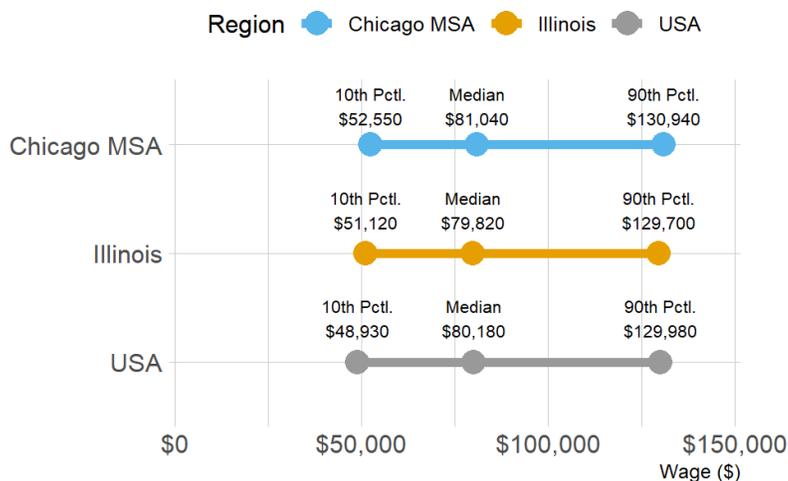
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Certified Green Professional, Certified Kitchen and Bath Designer

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,920 | 1.30 | \$81,040 |
| Illinois | 4,560 | 1.14 | \$79,820 |
| USA | 100,400 | - | \$80,180 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Develop final construction plans that include aesthetic representations of the structure or details for its construction. | More than monthly | 90 |
| Prepare scale drawings or architectural designs, using computer-aided design or other tools. | Hourly or more | 89 |
| Prepare information regarding design, structure specifications, materials, color, equipment, estimated costs, or construction time. | Daily | 88 |
| Consult with clients to determine functional or spatial requirements of structures. | More than monthly | 88 |
| Meet with clients to review or discuss architectural drawings. | More than monthly | 88 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Landscape Architects

17-1012.00



Description: Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: AP BD+C (Accredited Professional in Building Design and Construction)

Job Zone

Title: 4 - Considerable Preparation Needed

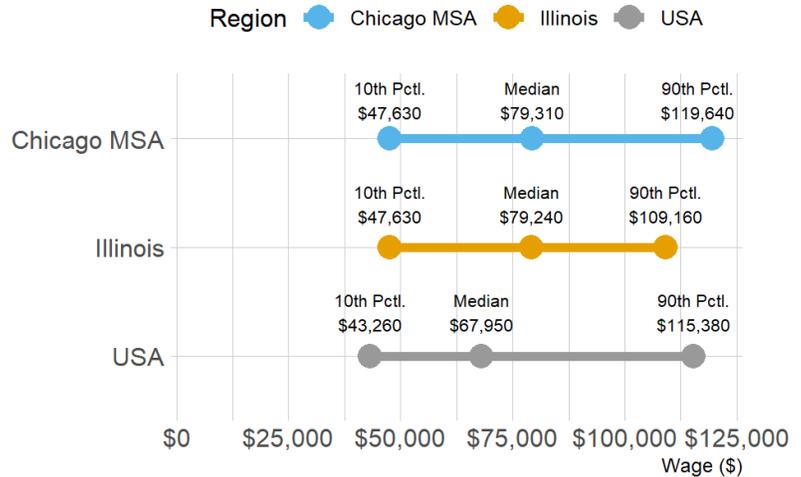
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 380 | 0.73 | \$79,310 |
| Illinois | 430 | 0.61 | \$79,240 |
| USA | 17,430 | - | \$67,950 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|---------------------|-------------------------|
| Prepare graphic representations or drawings of proposed plans or designs. | Several times daily | 92 |
| Confer with clients, engineering personnel, or architects on landscape projects. | Daily | 91 |
| Integrate existing land features or landscaping into designs. | More than monthly | 85 |
| Inspect landscape work to ensure compliance with specifications, evaluate quality of materials or work, or advise clients or construction personnel. | More than weekly | 82 |
| Analyze data on conditions such as site location, drainage, or structure location for environmental reports or landscaping plans. | More than monthly | 81 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Cartographers and Photogrammetrists

17-1021.00



Description: Research, study, and prepare maps and other spatial data in digital or graphic form for one or more purposes, such as legal, social, political, educational, and design purposes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aerial Photogrammetrist, Cartographer, Cartographic Designer

Job Zone

Title: 4 - Considerable Preparation Needed

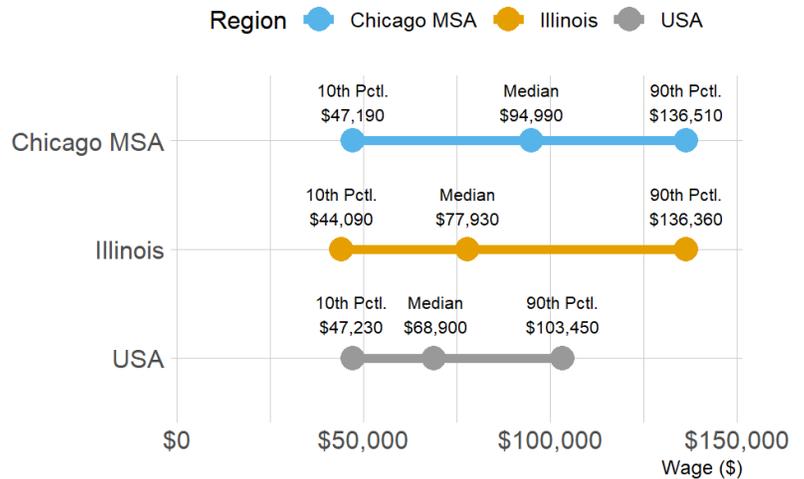
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop, Autodesk AutoCAD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 80 | 0.20 | \$94,990 |
| Illinois | 140 | 0.28 | \$77,930 |
| USA | 12,610 | - | \$68,900 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|---------------------|----|
| Compile data required for map preparation, including aerial photographs, survey notes, records, reports, and original maps. | Hourly or more | 90 |
| Delineate aerial photographic detail, such as control points, hydrography, topography, and cultural features, using precision stereoplottting apparatus or drafting instruments. | Hourly or more | 90 |
| Prepare and alter trace maps, charts, tables, detailed drawings, and three-dimensional optical models of terrain using stereoscopic plotting and computer graphics equipment. | Hourly or more | 89 |
| Study legal records to establish boundaries of local, national, and international properties. | Several times daily | 86 |
| Inspect final compositions to ensure completeness and accuracy. | Daily | 85 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Surveyors 17-1022.00



Description: Make exact measurements and determine property boundaries.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: City Surveyor, County Surveyor, Land Surveyor

Job Zone

Title: 4 - Considerable Preparation Needed

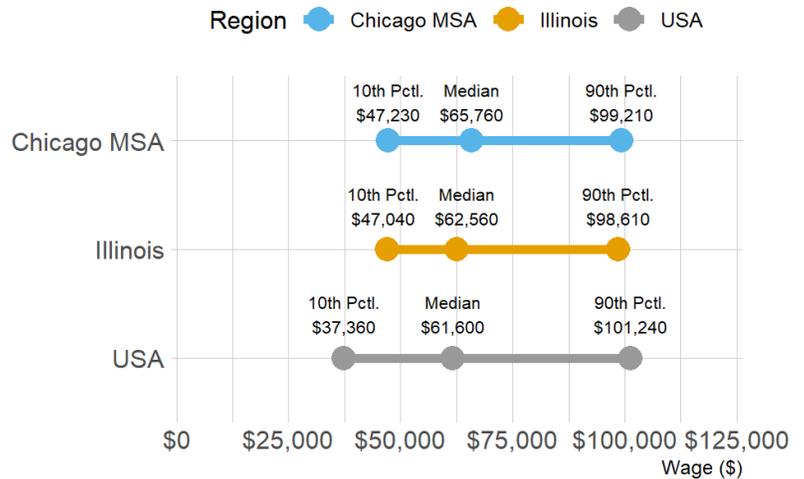
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk AutoCAD Land Desktop, Bentley MicroStation, Carlson SurvCADD, CMT Incorporated CogoCAD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 810 | 0.58 | \$65,760 |
| Illinois | 1,210 | 0.65 | \$62,560 |
| USA | 46,390 | – | \$61,600 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
|--|-----------|-------------------------|

Verify the accuracy of survey data, including measurements and calculations conducted at survey sites.

Daily

94

Direct or conduct surveys to establish legal boundaries for properties, based on legal deeds and titles.

Daily

93

Prepare, or supervise preparation of, all data, charts, plots, maps, records, and documents related to surveys.

Daily

92

Prepare and maintain sketches, maps, reports, and legal descriptions of surveys to describe, certify, and assume liability for work performed.

Daily

89

Write descriptions of property boundary surveys for use in deeds, leases, or other legal documents.

More than weekly

89

Aerospace Engineers

17-2011.00



Description: Perform engineering duties in designing, constructing, and testing aircraft, missiles, and spacecraft.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aeronautical Engineer, Aerospace Engineer, Aerospace Stress Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

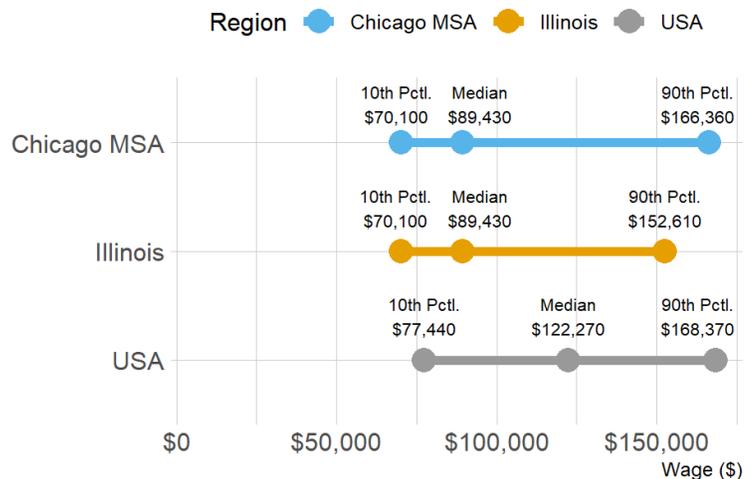
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Autodesk AutoCAD, C#, C++, Computer aided design and drafting CADD software, Dassault Systemes CATIA, Dassault Systemes SolidWorks

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 250 | 0.15 | \$89,430 |
| Illinois | 400 | 0.18 | \$89,430 |
| USA | 56,640 | - | \$122,270 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Formulate mathematical models or other methods of computer analysis to develop, evaluate, or modify design, according to customer engineering requirements.

Daily 81

Plan or conduct experimental, environmental, operational, or stress tests on models or prototypes of aircraft or aerospace systems or equipment.

More than yearly 80

Plan or coordinate investigation and resolution of customers' reports of technical problems with aircraft or aerospace vehicles.

More than monthly 78

Formulate conceptual design of aeronautical or aerospace products or systems to meet customer requirements or conform to environmental regulations.

More than weekly 78

Write technical reports or other documentation, such as handbooks or bulletins, for use by engineering staff, management, or customers.

More than monthly 77

Agricultural Engineers

17-2021.00



Description: Apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Agricultural Engineer, Agricultural Systems Specialist

Job Zone

Title: 4 - Considerable Preparation Needed

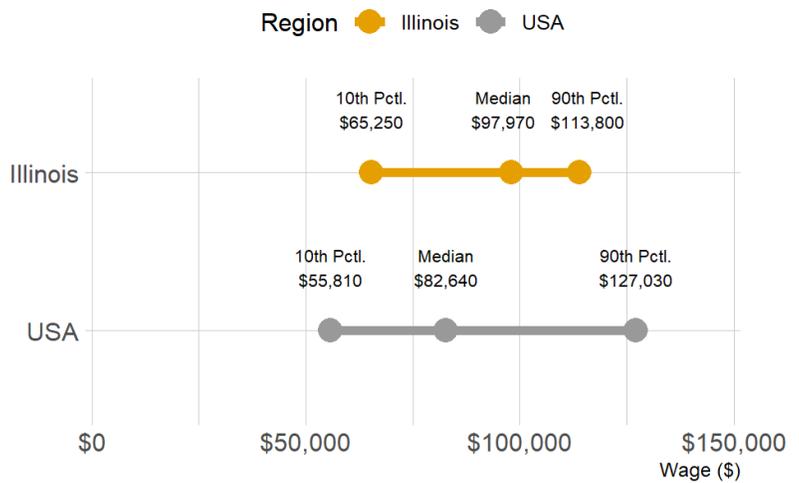
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop, Autodesk AutoCAD, Dassault Systemes SolidWorks, Eagle Point LANDCADD

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 60 | 1.26 | \$97,970 |
| USA | 1,120 | - | \$82,640 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|-------------------|----|
| Prepare reports, sketches, working drawings, specifications, proposals, and budgets for proposed sites or systems. | More than monthly | 83 |
| Discuss plans with clients, contractors, consultants, and other engineers so that they can be evaluated and necessary changes made. | More than monthly | 78 |
| Provide advice on water quality and issues related to pollution management, river control, and ground and surface water resources. | More than monthly | 76 |
| Meet with clients, such as district or regional councils, farmers, and developers, to discuss their needs. | More than monthly | 76 |
| Plan and direct construction of rural electric-power distribution systems, and irrigation, drainage, and flood control systems for soil and water conservation. | More than yearly | 73 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Bioengineers and Biomedical Engineers

17-2031.00



Description: Apply knowledge of engineering, biology, chemistry, computer science, and biomechanical principles to the design, development, and evaluation of biological, agricultural, and health systems and products.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Biomedical Electronics Technician, Biomedical Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

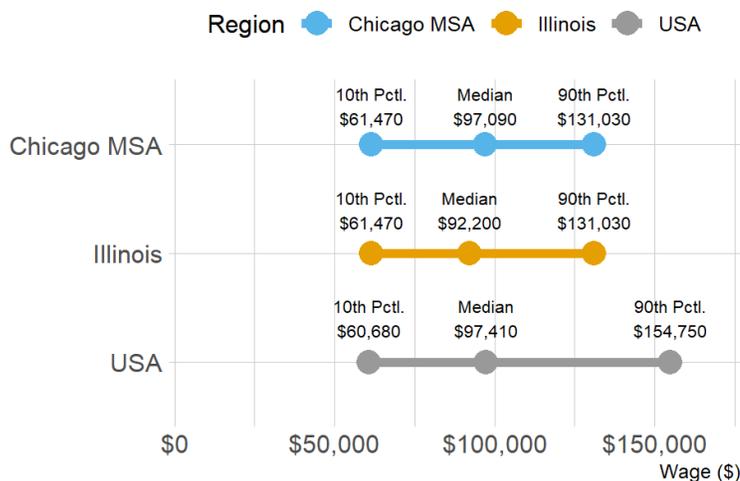
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Ab Initio, Adobe Systems Adobe Illustrator, Adobe Systems Adobe Photoshop, Autodesk AutoCAD, Bioreactor Design, C++

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 700 | 1.36 | \$97,090 |
| Illinois | 760 | 1.11 | \$92,200 |
| USA | 17,190 | – | \$97,410 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Conduct research, along with life scientists, chemists, and medical scientists, on the engineering aspects of the biological systems of humans and animals.

Daily 83

Evaluate the safety, efficiency, and effectiveness of biomedical equipment.

Daily 78

Adapt or design computer hardware or software for medical science uses.

More than weekly 78

Develop models or computer simulations of human biobehavioral systems to obtain data for measuring or controlling life processes.

Daily 76

Research new materials to be used for products, such as implanted artificial organs.

More than monthly 75

Chemical Engineers

17-2041.00



Description: Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Chemical Engineer, Development Engineer, Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

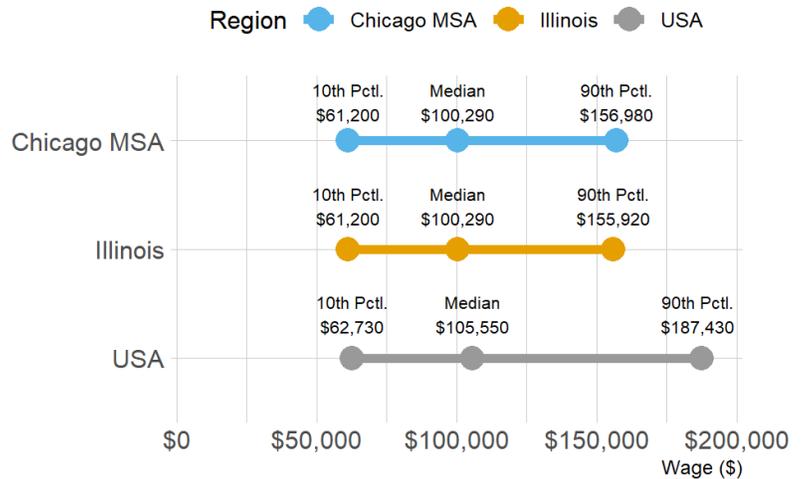
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Level II Laboratory Lubricant Analyst

Hot Technologies: Autodesk AutoCAD, C++, CD-adapco STAR-CAD, Computer aided design and drafting CADD software, Computer aided design CAD software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 220 | 0.30 | \$100,290 |
| Illinois | 300 | 0.31 | \$100,290 |
| USA | 24,180 | – | \$105,550 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Monitor and analyze data from processes and experiments. | Daily | 91 |
| Develop safety procedures to be employed by workers operating equipment or working in close proximity to ongoing chemical reactions. | More than yearly | 90 |
| Develop processes to separate components of liquids or gases or generate electrical currents, using controlled chemical processes. | More than monthly | 88 |
| Troubleshoot problems with chemical manufacturing processes. | Daily | 84 |
| Evaluate chemical equipment and processes to identify ways to optimize performance or to ensure compliance with safety and environmental regulations. | More than monthly | 83 |

Civil Engineers

17-2051.00



Description: Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: City Engineer, Civil Engineer, County Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

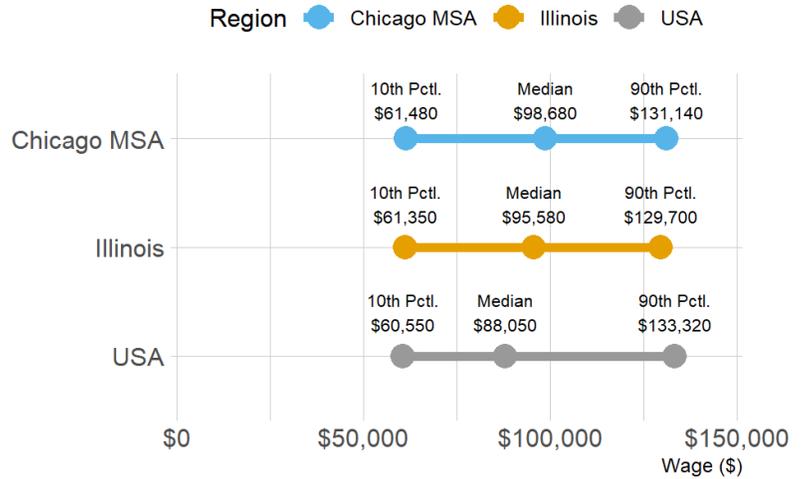
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Acrobat, Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk Land Desktop, Autodesk Revit, Bentley Haestad Methods CivilStorm

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 9,230 | 1.01 | \$98,680 |
| Illinois | 12,600 | 1.04 | \$95,580 |
| USA | 304,310 | - | \$88,050 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Direct engineering activities, ensuring compliance with environmental, safety, or other governmental regulations. | Daily | 85 |
| Inspect project sites to monitor progress and ensure conformance to design specifications and safety or sanitation standards. | More than monthly | 80 |
| Manage and direct the construction, operations, or maintenance activities at project site. | More than monthly | 80 |
| Compute load and grade requirements, water flow rates, or material stress factors to determine design specifications. | Daily | 79 |
| Plan and design transportation or hydraulic systems or structures, using computer-assisted design or drawing tools. | Daily | 78 |

Computer Hardware Engineers

17-2061.00



Description: Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Design Engineer, Engineer, Field Service Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

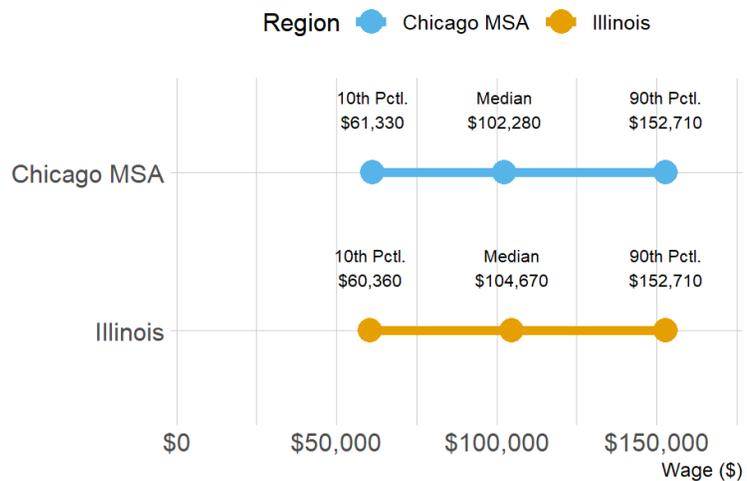
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Autodesk AutoCAD, C++, Cadence Allegro PCB Designer, Cadence Concept, Cadence OrCAD, Cadence Schematic Composer, Cadence Virtuoso Layout Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 490 | 0.22 | \$102,280 |
| Illinois | 550 | 0.19 | \$104,670 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Update knowledge and skills to keep up with rapid advancements in computer technology. | More than monthly | 86 |
| Design and develop computer hardware and support peripherals, including central processing units (CPUs), support logic, microprocessors, custom integrated circuits, and printers and disk drives. | More than yearly | 84 |
| Confer with engineering staff and consult specifications to evaluate interface between hardware and software and operational and performance requirements of overall system. | More than weekly | 83 |
| Build, test, and modify product prototypes, using working models or theoretical models constructed with computer simulation. | More than weekly | 81 |
| Write detailed functional specifications that document the hardware development process and support hardware introduction. | More than yearly | 80 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Electrical Engineers

17-2071.00



Description: Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Circuits Engineer, Design Engineer, Electrical Controls Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

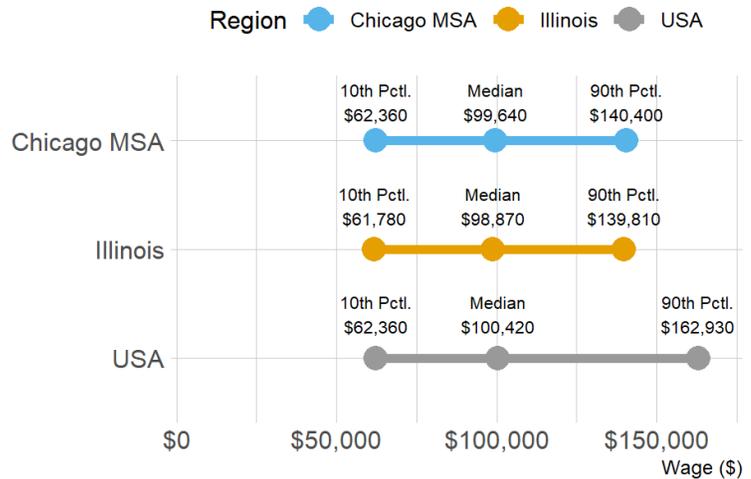
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: ESD (Electrostatic Discharge) - Associate Technician

Hot Technologies: Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk Revit, Bash, Bentley MicroStation, C#, C++

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,800 | 0.50 | \$99,640 |
| Illinois | 3,880 | 0.52 | \$98,870 |
| USA | 186,020 | - | \$100,420 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Operate computer-assisted engineering or design software or equipment to perform engineering tasks.

Daily 85

Prepare technical drawings, specifications of electrical systems, or topographical maps to ensure that installation and operations conform to standards and customer requirements.

More than monthly 84

Confer with engineers, customers, or others to discuss existing or potential engineering projects or products.

Daily 81

Design, implement, maintain, or improve electrical instruments, equipment, facilities, components, products, or systems for commercial, industrial, or domestic purposes.

More than monthly 78

Direct or coordinate manufacturing, construction, installation, maintenance, support, documentation, or testing activities to ensure compliance with specifications, codes, or customer requirements.

More than monthly 76

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Electronics Engineers, Except Computer

17-2072.00



Description: Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Design Engineer, Electronics Design Engineer, Evaluation Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

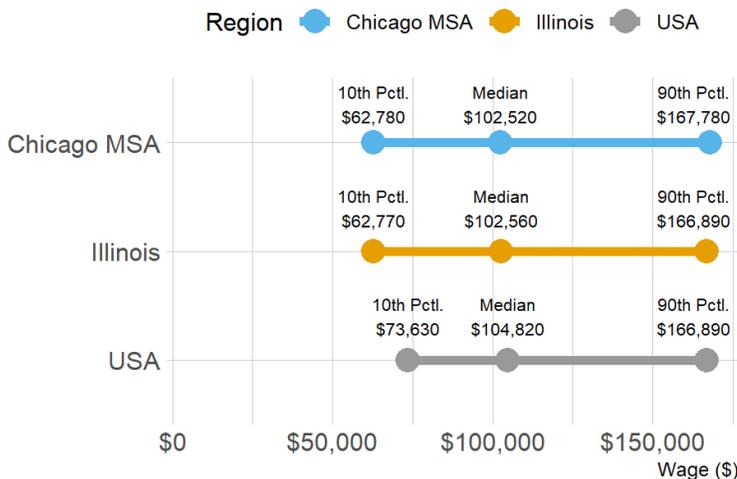
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Systems Engineering Professional

Hot Technologies: Agile Product Lifecycle Management PLM, Autodesk AutoCAD, C++, Dassault Systemes CATIA, Dassault Systemes SolidWorks, ESRI ArcGIS software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,390 | 0.74 | \$102,520 |
| Illinois | 2,860 | 0.67 | \$102,560 |
| USA | 107,170 | - | \$104,820 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Determine project material or equipment needs.

More than weekly **83**

Prepare documentation containing information such as confidential descriptions or specifications of proprietary hardware or software, product development or introduction schedules, product costs, or information about product performance weaknesses.

More than monthly **80**

Prepare engineering sketches or specifications for construction, relocation, or installation of equipment, facilities, products, or systems.

More than monthly **80**

Evaluate project work to ensure effectiveness, technical adequacy, or compatibility in the resolution of complex electronics engineering problems.

More than monthly **79**

Analyze electronics system requirements, capacity, cost, or customer needs to determine project feasibility.

More than weekly **78**



Environmental Engineers

17-2081.00



Description: Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Air Pollution Control Engineer, Engineer, Engineering Consultant

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

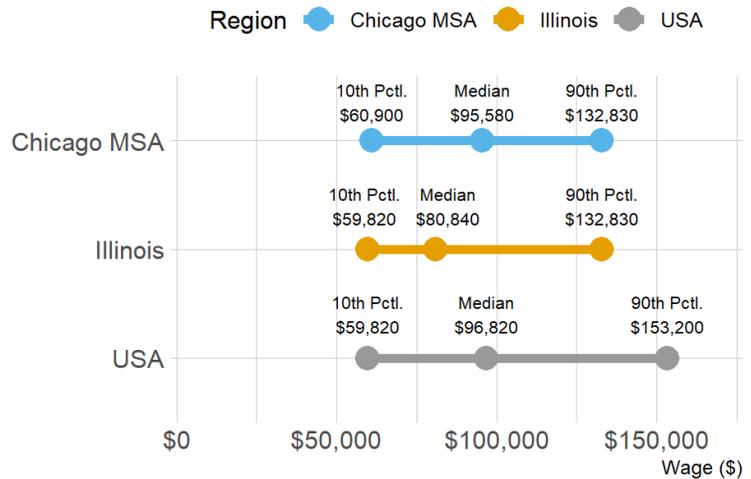
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Board Certified Environmental Engineer - Environmental Sustainability, Environmental Professional Intern

Hot Technologies: Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Bentley MicroStation, C++, Computer aided design and drafting software CADD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 610 | 0.48 | \$95,580 |
| Illinois | 770 | 0.45 | \$80,840 |
| USA | 42,660 | - | \$96,820 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|------------------|----|
| Provide technical support for environmental remediation or litigation projects, including remediation system design or determination of regulatory applicability. | More than weekly | 78 |
|---|------------------|----|

| | | |
|--|------------------|----|
| Collaborate with environmental scientists, planners, hazardous waste technicians, engineers, experts in law or business, or other specialists to address environmental problems. | More than yearly | 77 |
|--|------------------|----|

| | | |
|--|------------------|----|
| Assess the existing or potential environmental impact of land use projects on air, water, or land. | More than yearly | 76 |
|--|------------------|----|

| | | |
|---|-------------------|----|
| Inspect industrial or municipal facilities or programs to evaluate operational effectiveness or ensure compliance with environmental regulations. | More than monthly | 75 |
|---|-------------------|----|

| | | |
|---|-------------------|----|
| Advise corporations or government agencies of procedures to follow in cleaning up contaminated sites to protect people and the environment. | More than monthly | 75 |
|---|-------------------|----|



Health and Safety Engineers, Except Mining Safety Engineers and Inspectors

17-2111.00



Description: Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Health and Safety Specialist, Industrial Hygienist

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

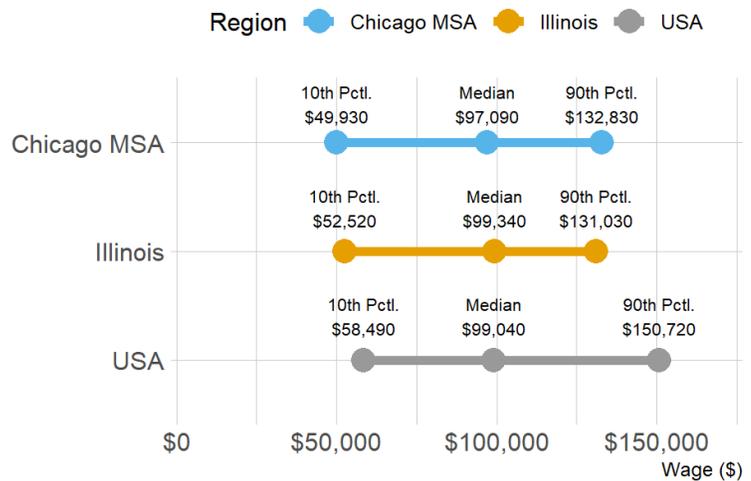
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Residential Energy Inspector/Plans Examiner, Associate Safety and Health Manager, Product Safety Certification

Hot Technologies: Autodesk AutoCAD, C++, Computer aided design CAD software, Eclipse IDE, Electronic design automation EDA software, Linux, Mathsoft Mathcad

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 220 | 0.32 | \$97,090 |
| Illinois | 310 | 0.34 | \$99,340 |
| USA | 22,870 | - | \$99,040 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Investigate industrial accidents, injuries, or occupational diseases to determine causes and preventive measures. | More than monthly | 90 |
| Conduct research to evaluate safety levels for products. | More than monthly | 87 |
| Evaluate product designs for safety. | More than monthly | 86 |
| Conduct or coordinate worker training in areas such as safety laws and regulations, hazardous condition monitoring, and use of safety equipment. | More than monthly | 86 |
| Maintain and apply knowledge of current policies, regulations, and industrial processes. | Daily | 86 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Industrial Engineers

17-2112.00



Description: Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, and cost analysis.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Continuous Improvement Engineer, Engineer, Facilities Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

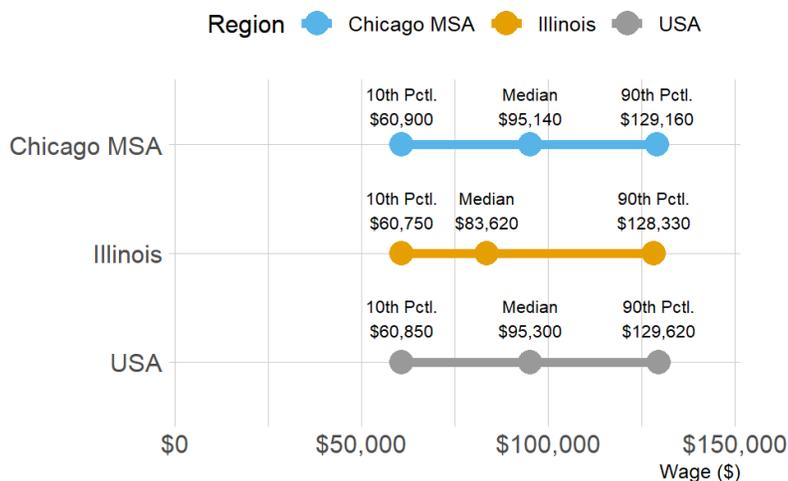
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified in Engineering Graphics, Associate Standards Professional Certification, Certified Technical Professional

Hot Technologies: Autodesk AutoCAD, Bentley MicroStation, C++, Dassault Systemes CATIA, Dassault Systemes SolidWorks, Electronic breadboard software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 9,140 | 1.03 | \$95,140 |
| Illinois | 12,660 | 1.08 | \$83,620 |
| USA | 293,950 | – | \$95,300 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Estimate production costs, cost saving methods, and the effects of product design changes on expenditures for management review, action, and control. | Daily | 79 |
| Plan and establish sequence of operations to fabricate and assemble parts or products and to promote efficient utilization. | More than weekly | 78 |
| Analyze statistical data and product specifications to determine standards and establish quality and reliability objectives of finished product. | More than monthly | 76 |
| Confer with clients, vendors, staff, and management personnel regarding purchases, product and production specifications, manufacturing capabilities, or project status. | More than monthly | 76 |
| Communicate with management and user personnel to develop production and design standards. | More than weekly | 74 |

Marine Engineers and Naval Architects

17-2121.00



Description: Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Marine Architect, Marine Design Engineer, Marine Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

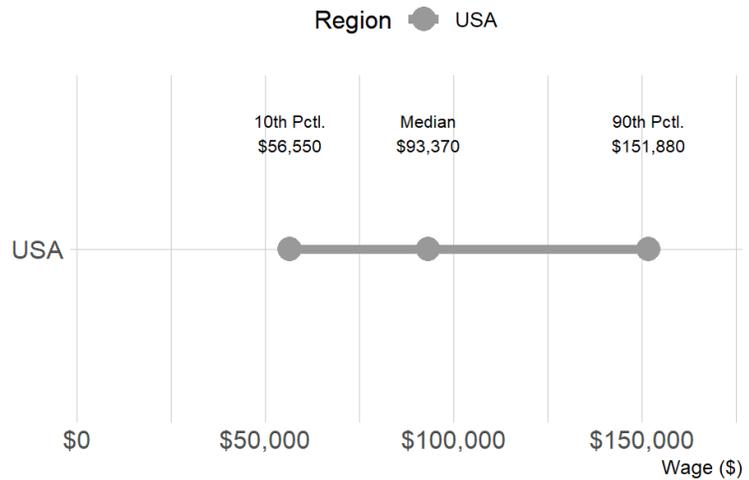
Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Marine Chemist

Hot Technologies: Adobe Systems Adobe Acrobat, AeroHydro MultiSurf, Autodesk AutoCAD, Dassault Systemes SolidWorks, Intergraph SmartMarine 3D, Microsoft Access

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
|--------|------------|-------------------|-------------|

| | | | |
|-----|-------|---|----------|
| USA | 7,380 | - | \$93,370 |
|-----|-------|---|----------|



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Design complete hull and superstructure according to specifications and test data, in conformity with standards of safety, efficiency, and economy.

More than yearly

85

Supervise other engineers and crew members and train them for routine and emergency duties.

Daily

84

Study design proposals and specifications to establish basic characteristics of craft, such as size, weight, speed, propulsion, displacement, and draft.

More than yearly

83

Perform monitoring activities to ensure that ships comply with international regulations and standards for life-saving equipment and pollution preventatives.

More than weekly

82

Oversee construction and testing of prototype in model basin and develop sectional and waterline curves of hull to establish center of gravity, ideal hull form, and buoyancy and stability data.

More than yearly

82

Materials Engineers

17-2131.00



Description: Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Extrusion Engineer, Materials Development Engineer, Materials Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

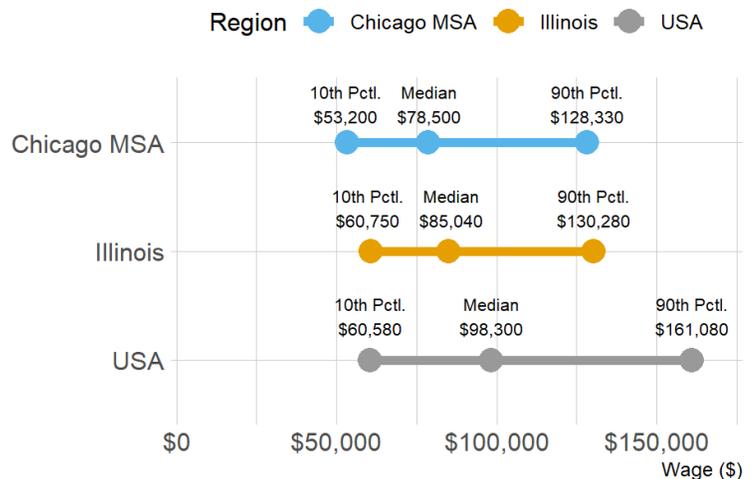
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Autodesk AutoCAD, C++, Computer aided design CAD software, Dassault Systemes CATIA, Dassault Systemes SolidWorks

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 220 | 0.33 | \$78,500 |
| Illinois | 250 | 0.29 | \$85,040 |
| USA | 21,530 | – | \$98,300 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Analyze product failure data and laboratory test results to determine causes of problems and develop solutions. | More than weekly | 86 |
| Design and direct the testing or control of processing procedures. | More than monthly | 84 |
| Monitor material performance and evaluate material deterioration. | More than weekly | 83 |
| Evaluate technical specifications and economic factors relating to process or product design objectives. | More than monthly | 82 |
| Conduct or supervise tests on raw materials or finished products to ensure their quality. | More than monthly | 82 |

Mechanical Engineers

17-2141.00



Description: Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Application Engineer, Design Engineer, Design Maintenance Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

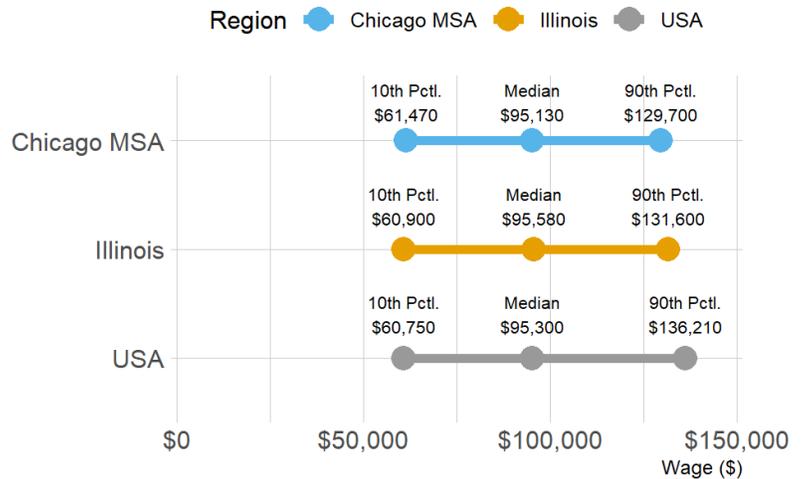
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Systems Engineering Professional, Associate Systems Engineering Professional

Hot Technologies: Adobe Systems Adobe Illustrator, Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk Revit, Bentley MicroStation, C++

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,290 | 0.87 | \$95,130 |
| Illinois | 10,520 | 0.95 | \$95,580 |
| USA | 278,240 | - | \$95,300 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|-------------------|----|
| Read and interpret blueprints, technical drawings, schematics, or computer-generated reports. | Daily | 90 |
| Research, design, evaluate, install, operate, or maintain mechanical products, equipment, systems or processes to meet requirements. | Hourly or more | 87 |
| Confer with engineers or other personnel to implement operating procedures, resolve system malfunctions, or provide technical information. | Daily | 83 |
| Develop, coordinate, or monitor all aspects of production, including selection of manufacturing methods, fabrication, or operation of product designs. | More than weekly | 80 |
| Investigate equipment failures or difficulties to diagnose faulty operation and recommend remedial actions. | More than monthly | 80 |



Mining and Geological Engineers, Including Mining Safety Engineers

17-2151.00



Description: Conduct subsurface surveys to identify the characteristics of potential land or mining development sites.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Mine Engineer, Mining Consultant, Mining Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

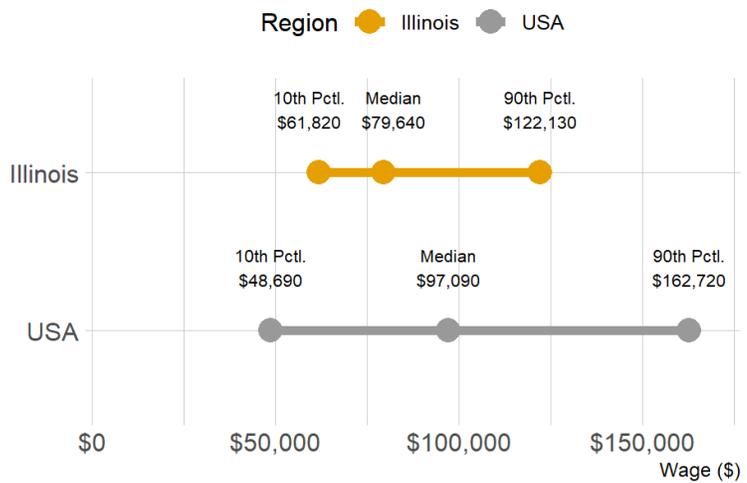
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Mine Safety Professional

Hot Technologies: Autodesk AutoCAD, Carlson SurvCADD, Computer aided design and drafting CADD software, Enterprise resource planning ERP software, Microsoft Access

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 100 | 0.35 | \$79,640 |
| USA | 7,370 | - | \$97,090 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Prepare technical reports for use by mining, engineering, and management personnel. | More than monthly | 88 |
| Inspect mining areas for unsafe structures, equipment, and working conditions. | More than yearly | 82 |
| Select or develop mineral location, extraction, and production methods, based on factors such as safety, cost, and deposit characteristics. | More than yearly | 80 |
| Select locations and plan underground or surface mining operations, specifying processes, labor usage, and equipment that will result in safe, economical, and environmentally sound extraction of minerals and ores. | More than yearly | 79 |
| Prepare schedules, reports, and estimates of the costs involved in developing and operating mines. | More than monthly | 76 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Nuclear Engineers

17-2161.00



Description: Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Engineer, Nuclear Design Engineer, Nuclear Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

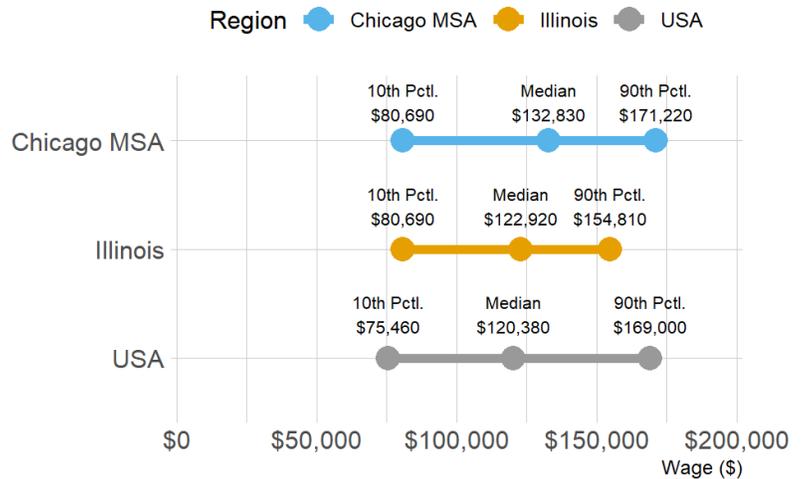
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: C++, Computer aided design CAD software, Linux, Mathsoft Mathcad, Microsoft Access, Microsoft Office Suite, Oracle Java, Python, Salesforce software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 110 | 0.28 | \$132,830 |
| Illinois | 370 | 0.73 | \$122,920 |
| USA | 12,670 | - | \$120,380 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|------------------|----|
| Monitor nuclear facility operations to identify any design, construction, or operation practices that violate safety regulations and laws or could jeopardize safe operations. | Hourly or more | 90 |
| Initiate corrective actions or order plant shutdowns in emergency situations. | Yearly or less | 90 |
| Examine accidents to obtain data for use in design of preventive measures. | Yearly or less | 84 |
| Design or develop nuclear equipment, such as reactor cores, radiation shielding, or associated instrumentation or control mechanisms. | More than yearly | 84 |
| Direct operating or maintenance activities of nuclear power plants to ensure efficiency and conformity to safety standards. | Daily | 83 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Architectural and Civil Drafters

17-3011.00



Description: Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Architectural Designer, Architectural Drafter, Architectural Draftsman

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

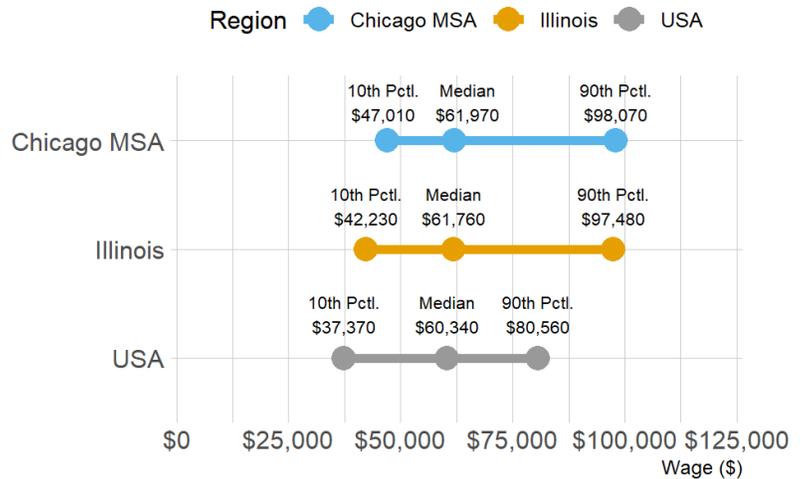
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Aging-In-Place Specialist

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe After Effects, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,000 | 0.66 | \$61,970 |
| Illinois | 2,500 | 0.62 | \$61,760 |
| USA | 101,310 | - | \$60,340 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|---------------------|----|
| Produce drawings, using computer-assisted drafting systems (CAD) or drafting machines, or by hand, using compasses, dividers, protractors, triangles, and other drafting devices. | Hourly or more | 97 |
| Draft plans and detailed drawings for structures, installations, and construction projects, such as highways, sewage disposal systems, and dikes, working from sketches or notes. | Hourly or more | 92 |
| Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans. | Daily | 88 |
| Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs. | Several times daily | 86 |
| Draw maps, diagrams, and profiles, using cross-sections and surveys, to represent elevations, topographical contours, subsurface formations, and structures. | Daily | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Electrical and Electronics Drafters

17-3012.00



Description: Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: CAD Operator (Computer Aided Design Operator), Design Drafter, Designer

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

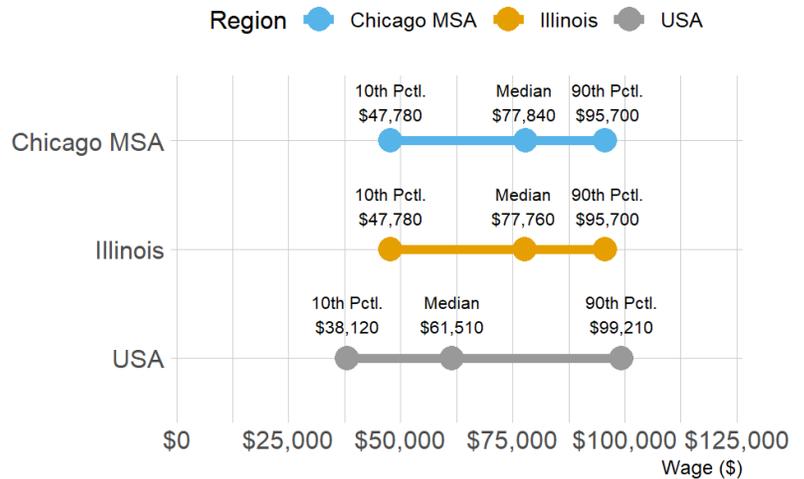
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Interconnect Designer

Hot Technologies: Autodesk AutoCAD, Autodesk Revit, Aveva Group Plant Design Management System PDMS, Bentley AutoPLANT, Bentley I/RAS B, Bentley MicroStation

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 380 | 0.60 | \$77,840 |
| Illinois | 530 | 0.64 | \$77,760 |
| USA | 20,830 | - | \$61,510 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Draft working drawings, wiring diagrams, wiring connection specifications, or cross-sections of underground cables, as required for instructions to installation crew.

Daily 88

Assemble documentation packages and produce drawing sets to be checked by an engineer or an architect.

Daily 87

Consult with engineers to discuss or interpret design concepts, or determine requirements of detailed working drawings.

Daily 87

Review completed construction drawings and cost estimates for accuracy and conformity to standards and regulations.

Daily 85

Examine electronic schematics and supporting documents to develop, compute, and verify specifications for drafting data, such as configuration of parts, dimensions, or tolerances.

Several times daily 85



Mechanical Drafters

17-3013.00



Description: Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: CAD Designer (Computer Aided Design Designer)

Job Zone

Title: 3 - Medium Preparation Needed

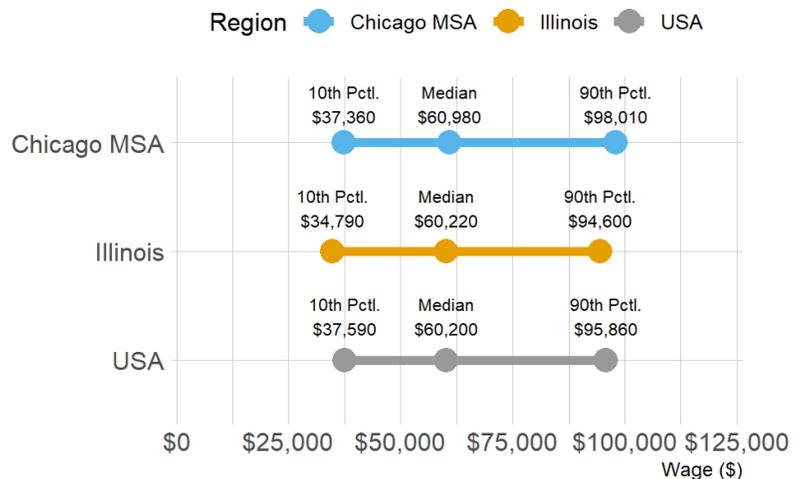
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe After Effects, Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk Inventor, Autodesk Mechanical, Autodesk Revit

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,220 | 0.85 | \$60,980 |
| Illinois | 1,520 | 0.80 | \$60,220 |
| USA | 47,760 | – | \$60,200 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|----------------|----|
| Develop detailed design drawings and specifications for mechanical equipment, dies, tools, and controls, using computer-assisted drafting (CAD) equipment. | Hourly or more | 93 |
|--|----------------|----|

| | | |
|---|----------------|----|
| Produce three-dimensional models, using computer-aided design (CAD) software. | Hourly or more | 89 |
|---|----------------|----|

| | | |
|---|-------|----|
| Lay out and draw schematic, orthographic, or angle views to depict functional relationships of components, assemblies, systems, and machines. | Daily | 87 |
|---|-------|----|

| | | |
|--|-------|----|
| Review and analyze specifications, sketches, drawings, ideas, and related data to assess factors affecting component designs and the procedures and instructions to be followed. | Daily | 84 |
|--|-------|----|

| | | |
|---|-------|----|
| Modify and revise designs to correct operating deficiencies or to reduce production problems. | Daily | 84 |
|---|-------|----|

Aerospace Engineering and Operations Technologists and Technicians

17-3021.00



Description: Operate, install, adjust, and maintain integrated computer/communications systems, consoles, simulators, and other data acquisition, test, and measurement instruments and equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Avionics Installation Technician, Avionics Technician

Job Zone

Title: 3 - Medium Preparation Needed

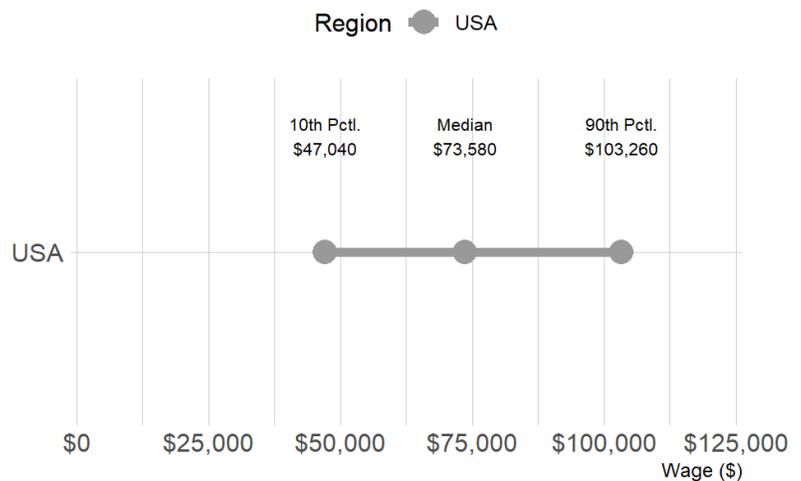
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Apache Hadoop, Atlassian JIRA, Autodesk AutoCAD, C++, Computer aided design CAD software, Dassault Systemes CATIA, Dassault Systemes SolidWorks

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 10,900 | - | \$73,580 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Test aircraft systems under simulated operational conditions, performing systems readiness tests and pre- and post-operational checkouts, to establish design or fabrication parameters. | More than yearly | 93 |
| Identify required data, data acquisition plans, and test parameters, setting up equipment to conform to these specifications. | More than monthly | 92 |
| Inspect, diagnose, maintain, and operate test setups and equipment to detect malfunctions. | More than monthly | 89 |
| Record and interpret test data on parts, assemblies, and mechanisms. | More than weekly | 89 |
| Confer with engineering personnel regarding details and implications of test procedures and results. | Daily | 89 |

Civil Engineering Technologists and Technicians

17-3022.00



Description: Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Civil Designer, Civil Engineering Assistant, Civil Engineering Technician

Job Zone

Title: 3 - Medium Preparation Needed

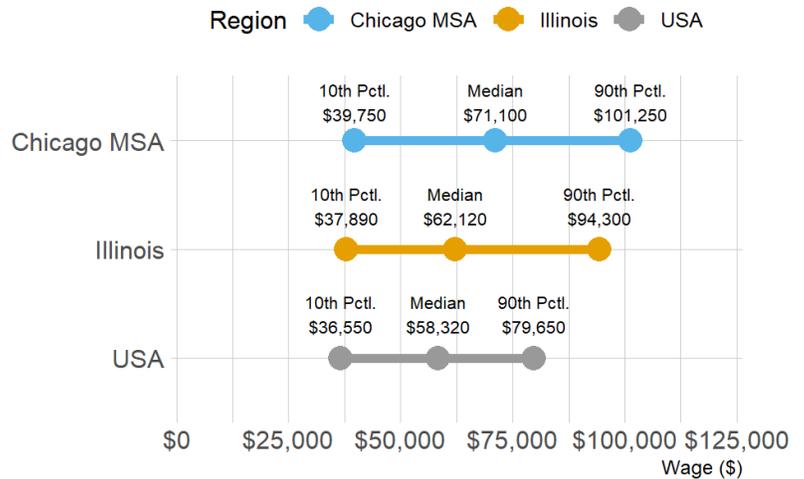
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk Land Desktop, Autodesk Revit, Bentley MicroStation

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,340 | 0.70 | \$71,100 |
| Illinois | 2,780 | 1.09 | \$62,120 |
| USA | 64,170 | - | \$58,320 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------------------|----|
| Calculate dimensions, square footage, profile and component specifications, and material quantities using calculator or computer. | Daily | 85 |
| Read and review project blueprints and structural specifications to determine dimensions of structure or system and material requirements. | More than weekly | 82 |
| Draft detailed dimensional drawings and design layouts for projects and to ensure conformance to specifications. | More than weekly | 81 |
| Confer with supervisor to determine project details such as plan preparation, acceptance testing, and evaluation of field conditions. | More than weekly | 78 |
| Analyze proposed site factors and design maps, graphs, tracings, and diagrams to illustrate findings. | More than monthly | 77 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Electrical and Electronic Engineering Technologists and Technicians

17-3023.00



Description: Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, adjust, and modify electrical components, circuitry, controls.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Communications Technologist, Electrical Engineering Technician

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

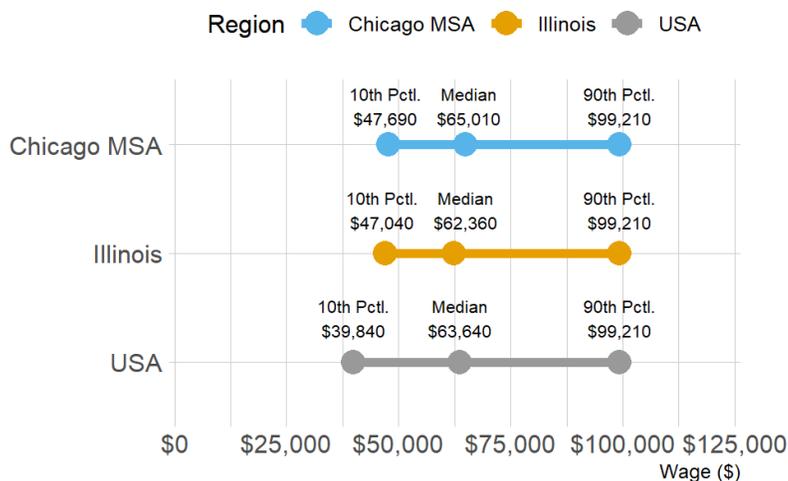
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Satellite Installer - Antenna, Associate Electronics Technician - Direct Current, ISA Certified Control Systems Technician - Level I

Hot Technologies: Adobe Systems Adobe Acrobat, Agilent Advanced Design System ADS, Altium Designer, Autodesk AutoCAD, Autodesk Revit, Bentley MicroStation, C++

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,200 | 0.72 | \$65,010 |
| Illinois | 2,910 | 0.72 | \$62,360 |
| USA | 101,450 | - | \$63,640 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|-------|----|
| Modify, maintain, or repair electronics equipment or systems to ensure proper functioning. | Daily | 88 |
| Replace defective components or parts, using hand tools and precision instruments. | Daily | 84 |
| Set up and operate specialized or standard test equipment to diagnose, test, or analyze the performance of electronic components, assemblies, or systems. | Daily | 83 |
| Read blueprints, wiring diagrams, schematic drawings, or engineering instructions for assembling electronics units, applying knowledge of electronic theory and components. | Daily | 83 |
| Identify and resolve equipment malfunctions, working with manufacturers or field representatives as necessary to procure replacement parts. | Daily | 81 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Electro-Mechanical and Mechatronics Technologists and Technicians

17-3024.00



Description: Operate, test, maintain, or adjust unmanned, automated, servomechanical, or electromechanical equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Designer, Electro-Mechanic, Electro-Mechanical Technician (E/M Technician)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

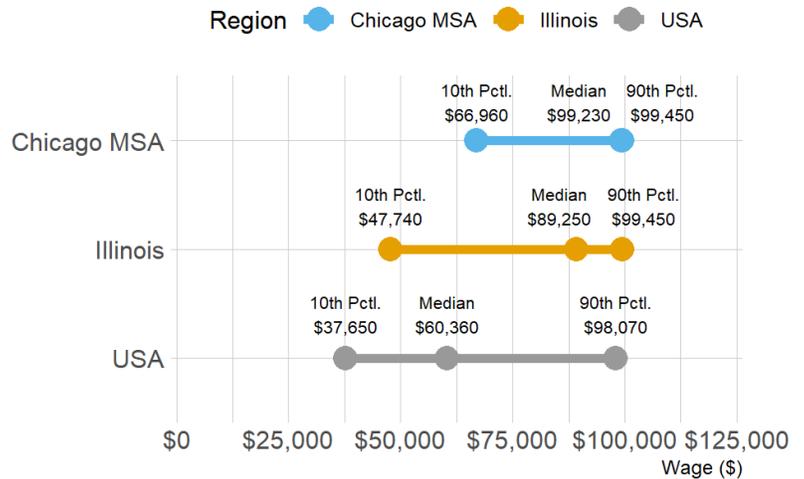
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: SACA C-101 Certified Industry 4.0 Associate - Basic Operations, SACA C-102 Certified Industry 4.0 Associate - Advanced Operations

Hot Technologies: Autodesk AutoCAD, Autodesk Inventor, C++, Computer aided design CAD software, Dassault Systemes SolidWorks, ESRI ArcGIS software, Linux

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 240 | 0.70 | \$99,230 |
| Illinois | 310 | 0.68 | \$89,250 |
| USA | 11,590 | - | \$60,360 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Test performance of electromechanical assemblies, using test instruments such as oscilloscopes, electronic voltmeters, or bridges. | Hourly or more | 86 |
| Read blueprints, schematics, diagrams, or technical orders to determine methods and sequences of assembly. | Daily | 85 |
| Inspect parts for surface defects. | Daily | 83 |
| Install electrical or electronic parts and hardware in housings or assemblies, using soldering equipment and hand tools. | Hourly or more | 82 |
| Verify part dimensions or clearances to ensure conformance to specifications, using precision measuring instruments. | More than weekly | 80 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Environmental Engineering Technologists and Technicians

17-3025.00



Description: Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Air Quality Instrument Specialist, Engineer Technician

Job Zone

Title: 4 - Considerable Preparation Needed

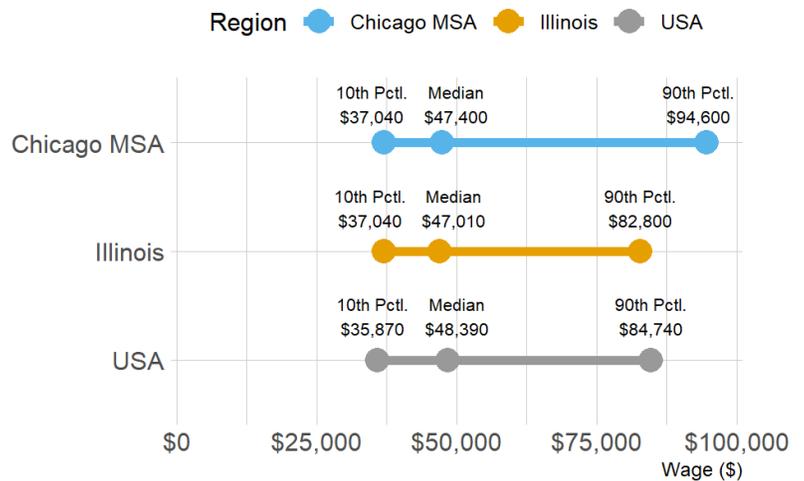
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Bentley MicroStation, C++, Computer aided design and drafting CADD software, Database software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 240 | 0.55 | \$47,400 |
| Illinois | 310 | 0.52 | \$47,010 |
| USA | 14,910 | - | \$48,390 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------------------|----|
| Maintain project logbook records or computer program files. | Daily | 82 |
| Perform environmental quality work in field or office settings. | Daily | 80 |
| Record laboratory or field data, including numerical data, test results, photographs, or summaries of visual observations. | More than yearly | 80 |
| Produce environmental assessment reports, tabulating data and preparing charts, graphs, or sketches. | More than monthly | 79 |
| Collect and analyze pollution samples, such as air or ground water. | More than weekly | 79 |



Industrial Engineering Technologists and Technicians

17-3026.00



Description: Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Business Process Analyst, Engineering Technician

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

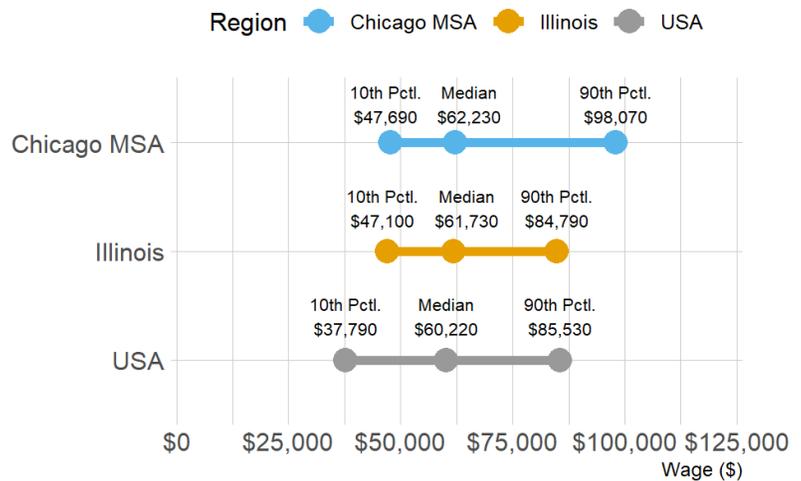
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: SACA C-101 Certified Industry 4.0 Associate - Basic Operations, SACA C-104 Certified Industry 4.0 Associate - IIoT, Networking & Data Analytics

Hot Technologies: Autodesk AutoCAD, Autodesk Inventor, Bentley MicroStation, C++, Computer aided design CAD software, Dassault Systemes CATIA

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,100 | 0.59 | \$62,230 |
| Illinois | 1,800 | 0.73 | \$61,730 |
| USA | 62,030 | - | \$60,220 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|---|------------------|-------------------------|
| Compile and evaluate statistical data to determine and maintain quality and reliability of products. | More than weekly | 73 |
| Test selected products at specified stages in the production process for performance characteristics or adherence to specifications. | Daily | 73 |
| Study time, motion, methods, or speed involved in maintenance, production, or other operations to establish standard production rate or improve efficiency. | Daily | 70 |
| Read worker logs, product processing sheets, or specification sheets to verify that records adhere to quality assurance specifications. | Daily | 69 |
| Verify that equipment is being operated and maintained according to quality assurance standards by observing worker performance. | Daily | 68 |

Compile and evaluate statistical data to determine and maintain quality and reliability of products. More than weekly. **73**

Test selected products at specified stages in the production process for performance characteristics or adherence to specifications. Daily. **73**

Study time, motion, methods, or speed involved in maintenance, production, or other operations to establish standard production rate or improve efficiency. Daily. **70**

Read worker logs, product processing sheets, or specification sheets to verify that records adhere to quality assurance specifications. Daily. **69**

Verify that equipment is being operated and maintained according to quality assurance standards by observing worker performance. Daily. **68**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Mechanical Engineering Technologists and Technicians

17-3027.00



Description: Apply theory and principles of mechanical engineering to modify, develop, test, or adjust machinery and equipment under direction of engineering staff or physical scientists.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Engineering Lab Technician, Engineering Technical Analyst

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

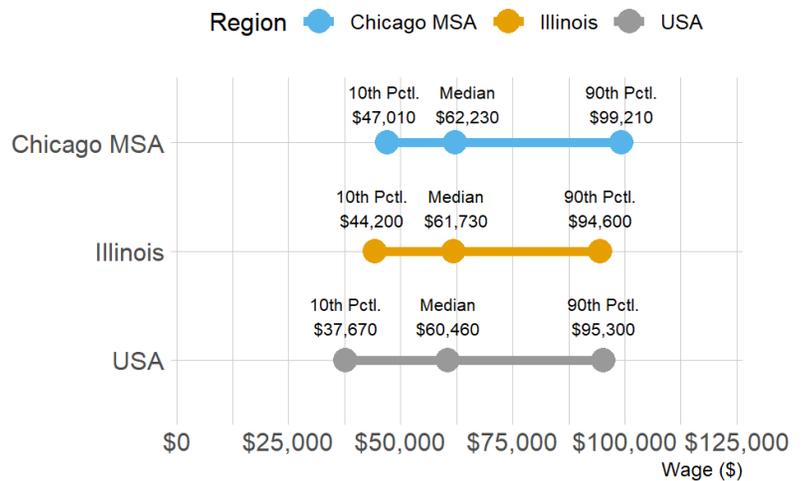
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: SACA C-103 Certified Industry 4.0 Associate - Robot System Operations, SACA Certified Industry 4.0 Automation Systems Specialist I

Hot Technologies: Autodesk AutoCAD, Autodesk AutoCAD Mechanical, Autodesk Inventor, Autodesk Revit, Bentley MicroStation, C++, Computer aided design CAD software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,320 | 1.09 | \$62,230 |
| Illinois | 1,910 | 1.19 | \$61,730 |
| USA | 40,180 | - | \$60,460 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Calculate required capacities for equipment of proposed system to obtain specified performance and submit data to engineering personnel for approval. | Daily | 76 |
| Review project instructions and blueprints to ascertain test specifications, procedures, and objectives, and test nature of technical problems such as redesign. | Daily | 75 |
| Draft detail drawing or sketch for drafting room completion or to request parts fabrication by machine, sheet or wood shops. | More than weekly | 73 |
| Analyze test results in relation to design or rated specifications and test objectives, and modify or adjust equipment to meet specifications. | More than monthly | 71 |
| Record test procedures and results, numerical and graphical data, and recommendations for changes in product or test methods. | More than weekly | 70 |

Surveying and Mapping Technicians

17-3031.00



Description: Perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist, to obtain data used for construction, mapmaking, boundary location, mining.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aerotriangulation Specialist, Engineering Technician, Geospatial Analyst

Job Zone

Title: 3 - Medium Preparation Needed

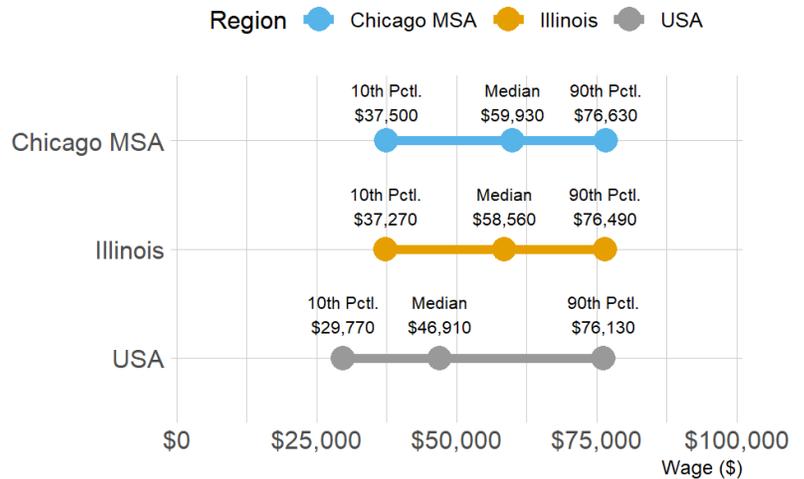
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: 3D Nature LLC Visual Nature Studio, 3D Nature LLC World Construction Set, Adobe Systems Adobe Illustrator, Adobe Systems Adobe Photoshop

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 690 | 0.41 | \$59,930 |
| Illinois | 910 | 0.41 | \$58,560 |
| USA | 56,070 | - | \$46,910 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Position and hold the vertical rods, or targets, that theodolite operators use for sighting to measure angles, distances, and elevations.

Daily 86

Check all layers of maps to ensure accuracy, identifying and marking errors and making corrections.

Hourly or more 86

Design or develop information databases that include geographic or topographic data.

Daily 84

Monitor mapping work or the updating of maps to ensure accuracy, inclusion of new or changed information, or compliance with rules and regulations.

Hourly or more 83

Produce or update overlay maps to show information boundaries, water locations, or topographic features on various base maps or at different scales.

Hourly or more 82



Soil and Plant Scientists

19-1013.00



Description: Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants or trees, shrubs, and nursery stock.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Agronomist, Arboriculture Researcher, Crop Nutrition Scientist

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

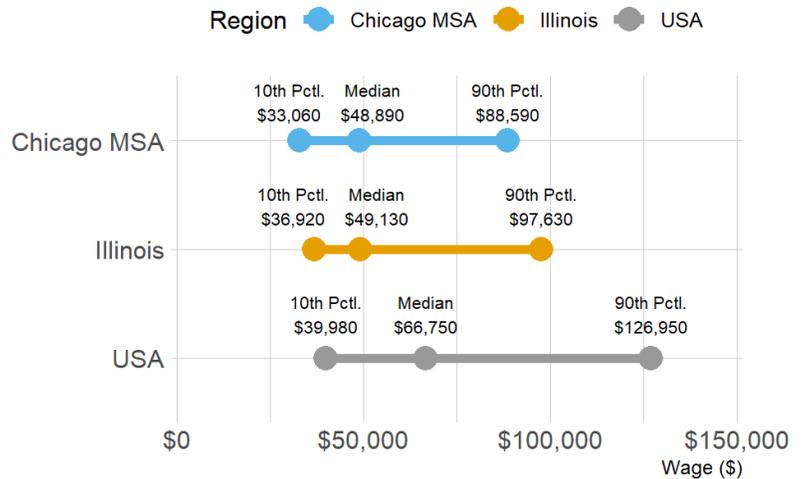
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Certified Professional Agronomist, Certified Crop Advisor, Board Certified Entomologist, Certified Crop Adviser - Resistance Management Specialty

Hot Technologies: Autodesk AutoCAD, ESRI ArcGIS software, IBM SPSS Statistics, Microsoft Access, Microsoft Active Server Pages ASP, Microsoft Office Suite, R

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 690 | 1.48 | \$48,890 |
| Illinois | 960 | 1.53 | \$49,130 |
| USA | 15,610 | - | \$66,750 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Communicate research or project results to other professionals or the public or teach related courses, seminars, or workshops.

More than weekly **85**

Provide information or recommendations to farmers or other landowners regarding ways in which they can best use land, promote plant growth, or avoid or correct problems such as erosion.

More than monthly **81**

Develop methods of conserving or managing soil that can be applied by farmers or forestry companies.

More than monthly **81**

Conduct experiments to develop new or improved varieties of field crops, focusing on characteristics such as yield, quality, disease resistance, nutritional value, or adaptation to specific soils or climates.

Daily **80**

Investigate soil problems or poor water quality to determine sources and effects.

More than yearly **77**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Microbiologists

19-1022.00



Description: Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bacteriologist, Clinical Laboratory Scientist, Clinical Microbiologist

Job Zone

Title: 5 - Extensive Preparation Needed

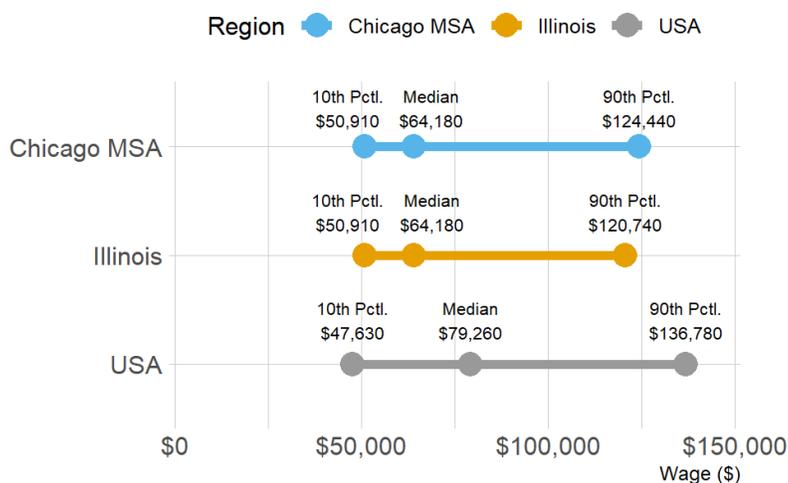
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Microsoft Access, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 430 | 0.73 | \$64,180 |
| Illinois | 520 | 0.67 | \$64,180 |
| USA | 19,430 | – | \$79,260 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Isolate and maintain cultures of bacteria or other microorganisms in prescribed or developed media, controlling moisture, aeration, temperature, and nutrition.

Daily

95

Study growth, structure, development, and general characteristics of bacteria and other microorganisms to understand their relationship to human, plant, and animal health.

Daily

90

Examine physiological, morphological, and cultural characteristics, using microscope, to identify and classify microorganisms in human, water, and food specimens.

Daily

89

Provide laboratory services for health departments, community environmental health programs, and physicians needing information for diagnosis and treatment.

Daily

85

Investigate the relationship between organisms and disease, including the control of epidemics and the effects of antibiotics on microorganisms.

Daily

83

Zoologists and Wildlife Biologists

19-1023.00



Description: Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aquatic Biologist, Conservation Resources Management Biologist

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

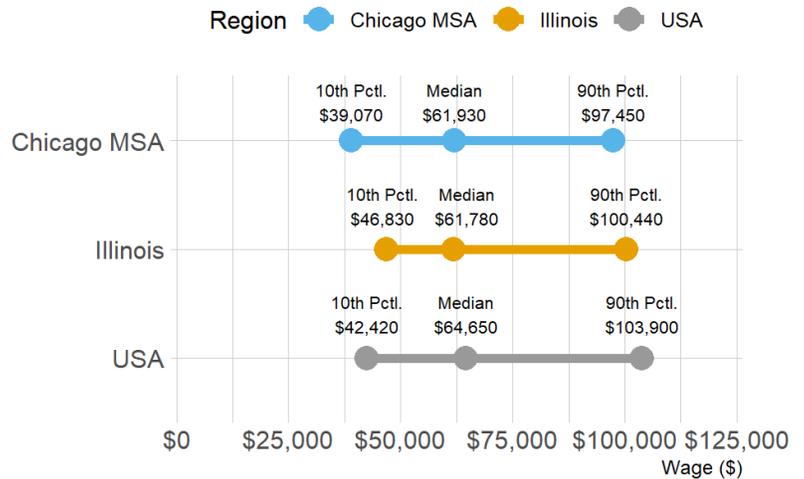
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Fisheries Professional Associate

Hot Technologies: ESRI ArcGIS software, Microsoft Access, Microsoft Active Server Pages ASP, Microsoft Office Suite, Python, R

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 110 | 0.22 | \$61,930 |
| Illinois | 180 | 0.28 | \$61,780 |
| USA | 15,930 | - | \$64,650 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Make recommendations on management systems and planning for wildlife populations and habitat, consulting with stakeholders and the public at large to explore options. | Daily | 86 |
| Inventory or estimate plant and wildlife populations. | More than monthly | 80 |
| Disseminate information by writing reports and scientific papers or journal articles, and by making presentations and giving talks for schools, clubs, interest groups and park interpretive programs. | More than yearly | 76 |
| Study animals in their natural habitats, assessing effects of environment and industry on animals, interpreting findings and recommending alternative operating conditions for industry. | More than yearly | 74 |
| Check for, and ensure compliance with, environmental laws, and notify law enforcement when violations are identified. | More than yearly | 74 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Conservation Scientists

19-1031.00



Description: Manage, improve, and protect natural resources to maximize their use without damaging the environment. May conduct soil surveys and develop plans to eliminate soil erosion or to protect rangelands.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Conservationist, Environmental Analyst, Erosion Control Specialist

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

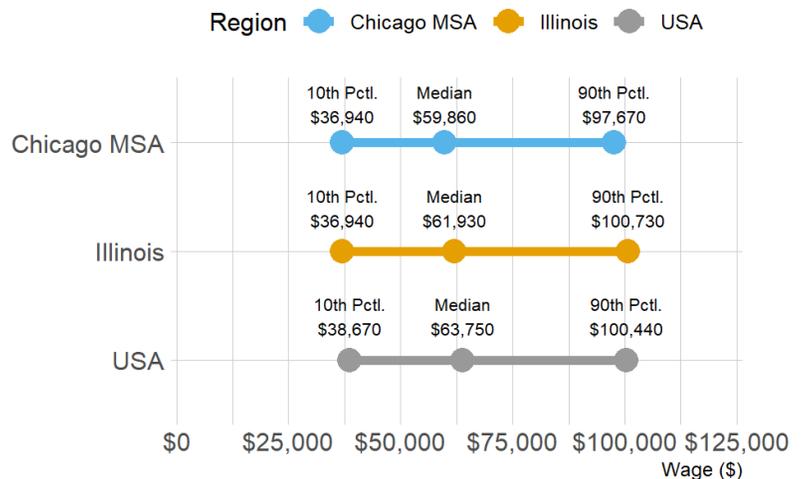
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Erosion, Sediment and Storm Water Inspector, Certified Professional in Erosion and Sediment Control

Hot Technologies: Adobe Systems Adobe Acrobat, Autodesk AutoCAD, ESRI ArcGIS software, Microsoft Access, Microsoft Active Server Pages ASP, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 520 | 0.77 | \$59,860 |
| Illinois | 890 | 0.99 | \$61,930 |
| USA | 22,550 | - | \$63,750 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Implement soil or water management techniques, such as nutrient management, erosion control, buffers, or filter strips, in accordance with conservation plans.

More than weekly **89**

Advise land users, such as farmers or ranchers, on plans, problems, or alternative conservation solutions.

More than yearly **85**

Monitor projects during or after construction to ensure projects conform to design specifications.

More than monthly **85**

Visit areas affected by erosion problems to identify causes or determine solutions.

More than monthly **85**

Develop or maintain working relationships with local government staff or board members.

More than monthly **81**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Foresters

19-1032.00



Description: Manage public and private forested lands for economic, recreational, and conservation purposes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Area Forester, Environmental Protection Forester, Fire Prevention Forester

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

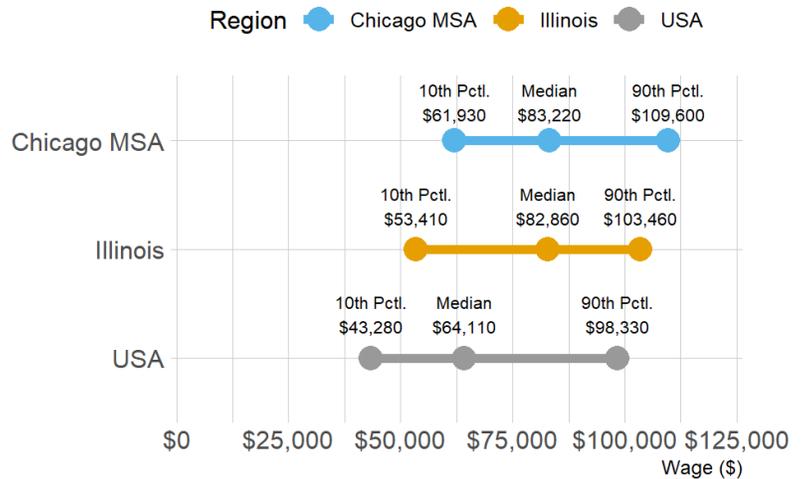
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Forester

Hot Technologies: ESRI ArcGIS software, IBM Notes, Microsoft Access, Microsoft Active Server Pages ASP, Microsoft Office Suite, Trimble CENGEA

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 150 | 0.54 | \$83,220 |
| Illinois | 270 | 0.72 | \$82,860 |
| USA | 9,500 | - | \$64,110 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|------------------|----|
| Monitor contract compliance and results of forestry activities to assure adherence to government regulations. | More than weekly | 82 |
|---|------------------|----|

| | | |
|---|-------------------|----|
| Plan and supervise forestry projects, such as determining the type, number and placement of trees to be planted, managing tree nurseries, thinning forest and monitoring growth of new seedlings. | More than monthly | 78 |
|---|-------------------|----|

| | | |
|---|------------------|----|
| Establish short- and long-term plans for management of forest lands and forest resources. | More than yearly | 77 |
|---|------------------|----|

| | | |
|---|-------------------|----|
| Determine methods of cutting and removing timber with minimum waste and environmental damage. | More than monthly | 75 |
|---|-------------------|----|

| | | |
|---|-------|----|
| Supervise activities of other forestry workers. | Daily | 74 |
|---|-------|----|

Physicists

19-2012.00



Description: Conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Biophysics Scientist, Health Physicist, Medical Physicist

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

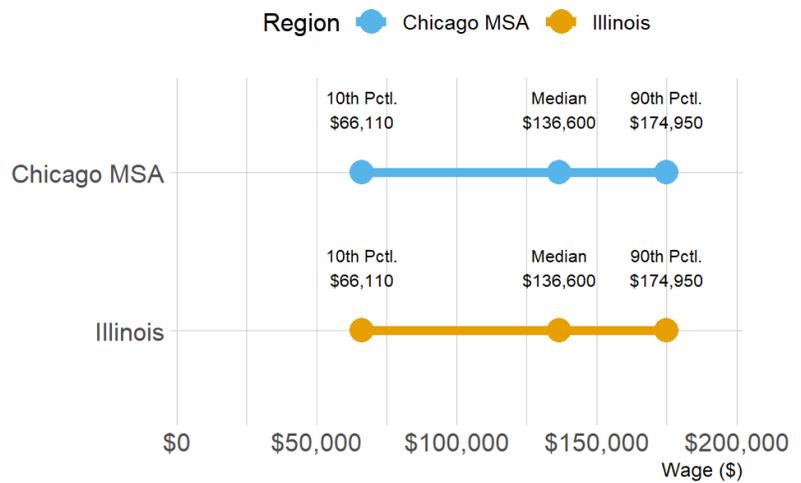
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Certified Health Physicist

Hot Technologies: Adobe Systems Adobe Photoshop, Ansible software, Autodesk AutoCAD, C++, Eclipse IDE, Extensible markup language XML, Git, JavaScript, Linux

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$136,600 |
| Illinois | - | - | \$136,600 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Perform complex calculations as part of the analysis and evaluation of data, using computers. | Daily | 86 |
| Analyze data from research conducted to detect and measure physical phenomena. | Daily | 83 |
| Describe and express observations and conclusions in mathematical terms. | More than monthly | 81 |
| Design computer simulations to model physical data so that it can be better understood. | More than monthly | 80 |
| Report experimental results by writing papers for scientific journals or by presenting information at scientific conferences. | More than yearly | 79 |

Atmospheric and Space Scientists

19-2021.00



Description: Investigate atmospheric phenomena and interpret meteorological data, gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Broadcast Meteorologist, Forecaster, Forensic Meteorologist

Job Zone

Title: 4 - Considerable Preparation Needed

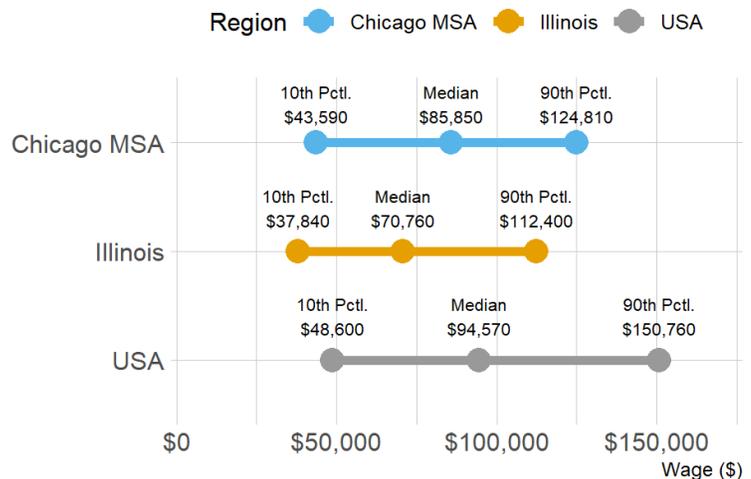
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Photoshop, C++, Facebook, IBM SPSS Statistics, Linux, Microsoft Access, Microsoft Office Suite, Perl, Python, R

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 70 | 0.26 | \$85,850 |
| Illinois | - | - | \$70,760 |
| USA | 8,520 | - | \$94,570 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|---------------------|----|
| Broadcast weather conditions, forecasts, or severe weather warnings to the public via television, radio, or the Internet or provide this information to the news media. | Several times daily | 89 |
| Gather data from sources such as surface or upper air stations, satellites, weather bureaus, or radar for use in meteorological reports or forecasts. | Hourly or more | 89 |
| Prepare weather reports or maps for analysis, distribution, or use in weather broadcasts, using computer graphics. | Several times daily | 87 |
| Develop or use mathematical or computer models for weather forecasting. | Hourly or more | 87 |
| Formulate predictions by interpreting environmental data, such as meteorological, atmospheric, oceanic, paleoclimate, climate, or related information. | Daily | 86 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Chemists 19-2031.00



Description: Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Air Quality Chemist, Analytical Chemist, Chemical Laboratory Scientist

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

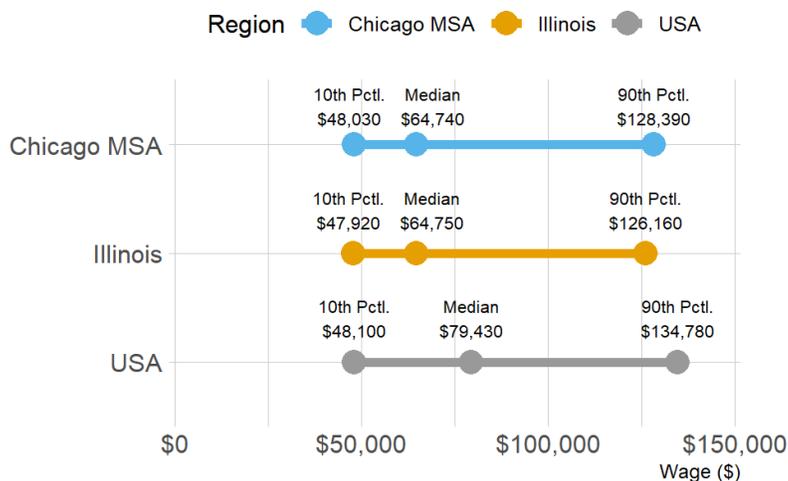
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Clinical Chemist, Chemical Hygiene Officer

Hot Technologies: C++, ChemInnovation Software Chem 4-D, ChemSW Molecular Modeling Pro, Extensible markup language XML, Hypercube HyperChem

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,600 | 1.07 | \$64,740 |
| Illinois | 3,140 | 0.98 | \$64,750 |
| USA | 80,600 | – | \$79,430 |



Top 5 Core Tasks According to Current Job Holders

Analyze organic or inorganic compounds to determine chemical or physical properties, composition, structure, relationships, or reactions, using chromatography, spectroscopy, or spectrophotometry techniques.

Hourly or more
90

Conduct quality control tests.

Daily
90

Maintain laboratory instruments to ensure proper working order and troubleshoot malfunctions when needed.

Daily
89

Prepare test solutions, compounds, or reagents for laboratory personnel to conduct tests.

More than weekly
86

Compile and analyze test information to determine process or equipment operating efficiency or to diagnose malfunctions.

Daily
84

Materials Scientists

19-2032.00



Description: Research and study the structures and chemical properties of various natural and synthetic or composite materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Materials Scientist

Job Zone

Title: 5 - Extensive Preparation Needed

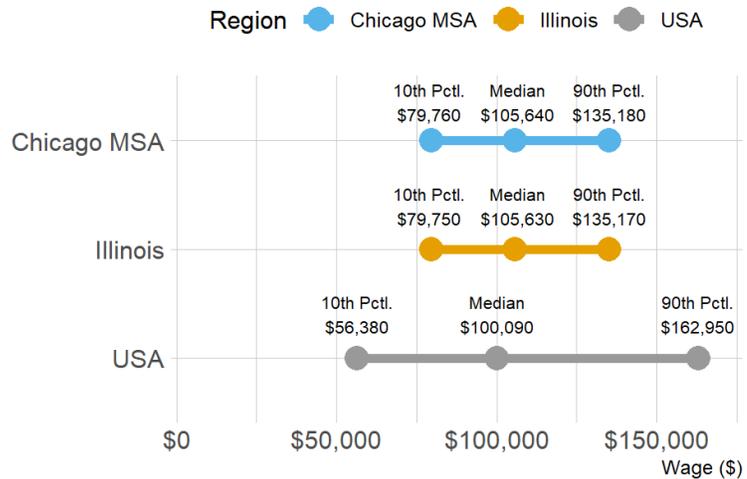
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: IBM SPSS Statistics, Microsoft Office Suite, National Instruments LabVIEW, R, The MathWorks MATLAB

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 470 | 2.33 | \$105,640 |
| Illinois | 530 | 1.97 | \$105,630 |
| USA | 6,690 | - | \$100,090 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Conduct research on the structures and properties of materials, such as metals, alloys, polymers, and ceramics, to obtain information that could be used to develop new products or enhance existing ones.

Daily 90

Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications.

Daily 88

Plan laboratory experiments to confirm feasibility of processes and techniques used in the production of materials with special characteristics.

More than weekly 85

Devise testing methods to evaluate the effects of various conditions on particular materials.

More than yearly 84

Prepare reports, manuscripts, proposals, and technical manuals for use by other scientists and requestors, such as sponsors and customers.

More than yearly 84

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Environmental Scientists and Specialists, Including Health

19-2041.00



Description: Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or public health.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Environmental Analyst, Environmental Health and Safety Specialist

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

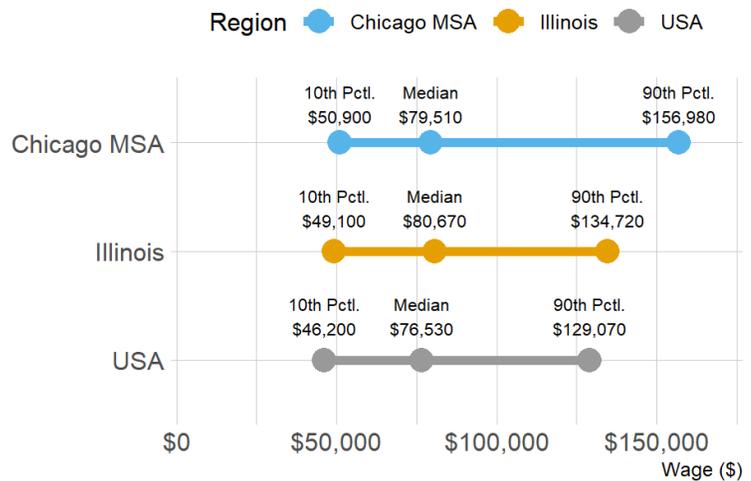
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Chemical Hygiene Officer, Certified Environmental Scientist

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Illustrator, Autodesk AutoCAD, Bentley MicroStation, C++, Database software, ESRI ArcGIS software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,010 | 0.44 | \$79,510 |
| Illinois | 1,410 | 0.46 | \$80,670 |
| USA | 76,890 | - | \$76,530 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Review and implement environmental technical standards, guidelines, policies, and formal regulations that meet all appropriate requirements. More than yearly **76**

Provide scientific or technical guidance, support, coordination, or oversight to governmental agencies, environmental programs, industry, or the public. More than yearly **76**

Collect, synthesize, analyze, manage, and report environmental data, such as pollution emission measurements, atmospheric monitoring measurements, meteorological or mineralogical information, or soil or water samples. More than yearly **75**

Provide advice on proper standards and regulations or the development of policies, strategies, or codes of practice for environmental management. More than monthly **72**

Communicate scientific or technical information to the public, organizations, or internal audiences through oral briefings, written documents, workshops, conferences, training sessions, or public hearings. More than yearly **72**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Geoscientists, Except Hydrologists and Geographers

19-2042.00



Description: Study the composition, structure, and other physical aspects of the Earth.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Engineering Geologist, Environmental Protection Geologist

Job Zone

Title: 5 - Extensive Preparation Needed

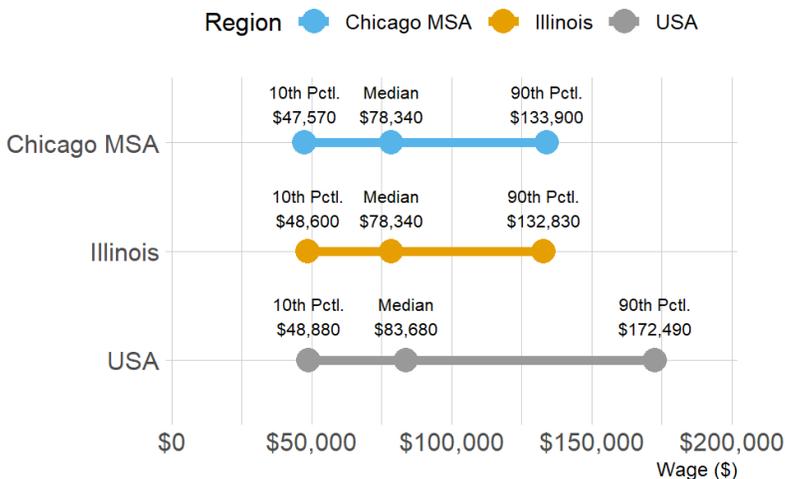
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Photoshop, Atoll GeoCAD, Autodesk AutoCAD, ESRI ArcGIS software, Evolution Computing EasyCAD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 190 | 0.27 | \$78,340 |
| Illinois | 320 | 0.34 | \$78,340 |
| USA | 23,620 | - | \$83,680 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Plan or conduct geological, geochemical, or geophysical field studies or surveys, sample collection, or drilling and testing programs used to collect data for research or application.

More than yearly **89**

Investigate the composition, structure, or history of the Earth's crust through the collection, examination, measurement, or classification of soils, minerals, rocks, or fossil remains.

More than monthly **88**

Analyze and interpret geological data, using computer software.

Daily **88**

Analyze and interpret geological, geochemical, or geophysical information from sources, such as survey data, well logs, bore holes, or aerial photos.

Daily **87**

Prepare geological maps, cross-sectional diagrams, charts, or reports concerning mineral extraction, land use, or resource management, using results of fieldwork or laboratory research.

More than weekly **83**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Hydrologists

19-2043.00



Description: Research the distribution, circulation, and physical properties of underground and surface waters; and study the form and intensity of precipitation and its rate of infiltration into the soil.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Groundwater Consultant, Hydrogeologist, Hydrologist

Job Zone

Title: 5 - Extensive Preparation Needed

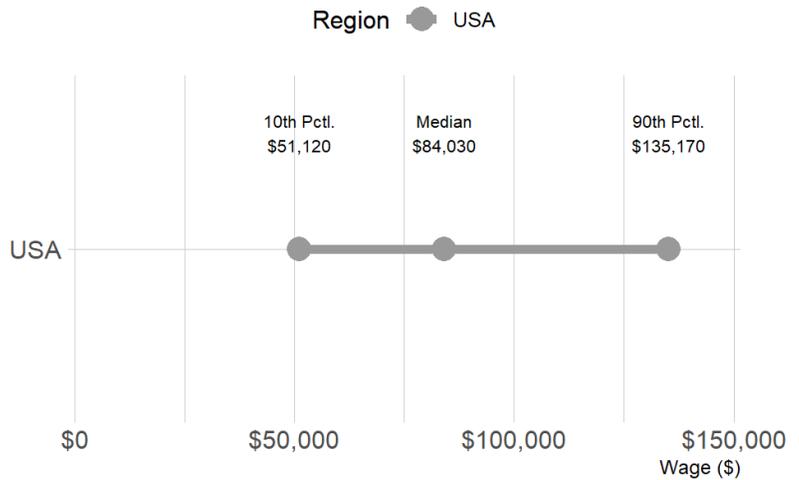
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Advanced Logic Technology WellCAD, Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk AutoCAD Map 3D, Autodesk Land Desktop, Bentley MicroStation

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 6,390 | - | \$84,030 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Prepare written and oral reports describing research results, using illustrations, maps, appendices, and other information. | More than yearly | 89 |
| Design and conduct scientific hydrogeological investigations to ensure that accurate and appropriate information is available for use in water resource management decisions. | More than monthly | 82 |
| Measure and graph phenomena such as lake levels, stream flows, and changes in water volumes. | More than monthly | 81 |
| Conduct research and communicate information to promote the conservation and preservation of water resources. | More than yearly | 80 |
| Coordinate and supervise the work of professional and technical staff, including research assistants, technologists, and technicians. | Daily | 78 |

Economists 19-3011.00



Description: Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Economic Analyst, Economic Consultant, Economic Development Specialist

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

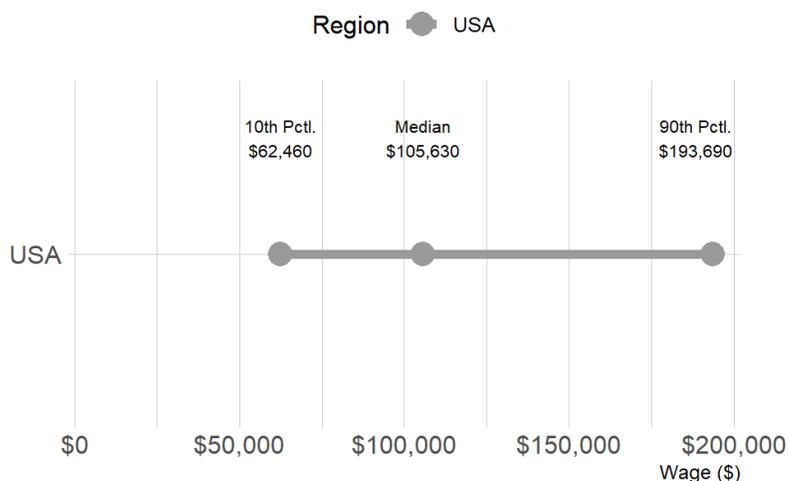
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Economic Development Finance Professional

Hot Technologies: C++, IBM SPSS Statistics, Microsoft Access, Microsoft Office Suite, Microsoft SQL Server, Microsoft Visual Basic

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 15,640 | – | \$105,630 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Study economic and statistical data in area of specialization, such as finance, labor, or agriculture.

Daily

86

Conduct research on economic issues, and disseminate research findings through technical reports or scientific articles in journals.

Daily

85

Compile, analyze, and report data to explain economic phenomena and forecast market trends, applying mathematical models and statistical techniques.

More than weekly

83

Supervise research projects and students' study projects.

More than weekly

81

Teach theories, principles, and methods of economics.

More than weekly

80

Survey Researchers

19-3022.00



Description: Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Data Analyst, Field Interviewer, Market Survey Representative

Job Zone

Title: 5 - Extensive Preparation Needed

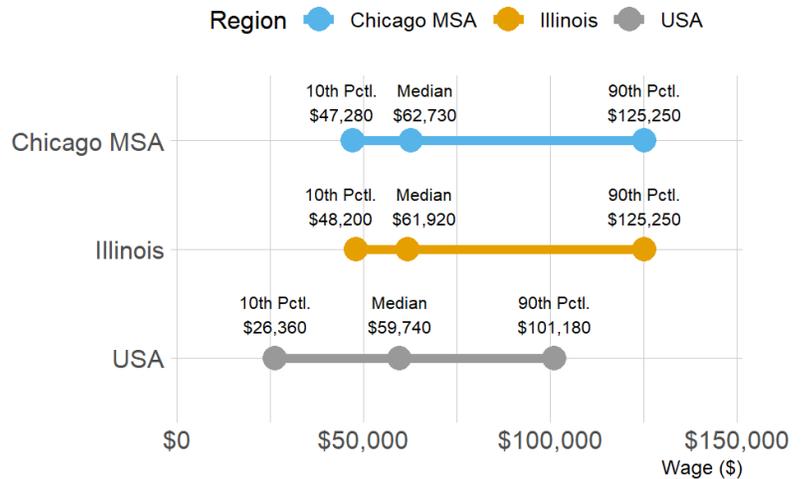
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: C++, Database software, Extensible markup language XML, IBM SPSS Statistics, JavaScript, Microsoft Access, Microsoft Active Server Pages ASP

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 420 | 1.56 | \$62,730 |
| Illinois | 440 | 1.25 | \$61,920 |
| USA | 8,850 | – | \$59,740 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Review, classify, and record survey data in preparation for computer analysis.

More than weekly

96

Monitor and evaluate survey progress and performance, using sample disposition reports and response rate calculations.

Daily

93

Produce documentation of the questionnaire development process, data collection methods, sampling designs, and decisions related to sample statistical weighting.

More than monthly

93

Prepare and present summaries and analyses of survey data, including tables, graphs, and fact sheets that describe survey techniques and results.

More than yearly

92

Consult with clients to identify survey needs and specific requirements, such as special samples.

More than monthly

92

Urban and Regional Planners

19-3051.00



Description: Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: City Planner, Community Development Planner, Community Planner

Job Zone

Title: 5 - Extensive Preparation Needed

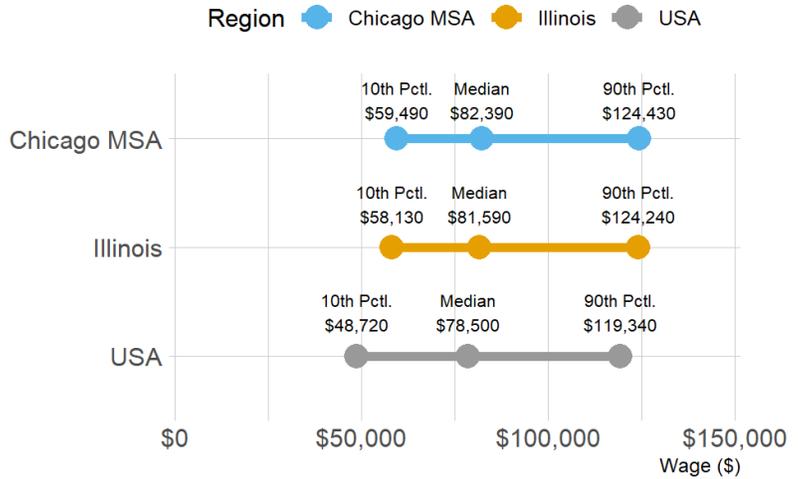
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: 3D urban simulation modeling software, Accela KIVA DMS, Adobe Systems Adobe Acrobat, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 790 | 0.67 | \$82,390 |
| Illinois | 960 | 0.62 | \$81,590 |
| USA | 38,940 | - | \$78,500 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|-------------------|----|
| Design, promote, or administer government plans or policies affecting land use, zoning, public utilities, community facilities, housing, or transportation. | Daily | 94 |
| Advise planning officials on project feasibility, cost-effectiveness, regulatory conformance, or possible alternatives. | More than monthly | 92 |
| Create, prepare, or requisition graphic or narrative reports on land use data, including land area maps overlaid with geographic variables, such as population density. | More than monthly | 91 |
| Hold public meetings with government officials, social scientists, lawyers, developers, the public, or special interest groups to formulate, develop, or address issues regarding land use or community plans. | More than monthly | 91 |
| Mediate community disputes or assist in developing alternative plans or recommendations for programs or projects. | More than monthly | 89 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Geographers

19-3092.00



Description: Study the nature and use of areas of the Earth's surface, relating and interpreting interactions of physical and cultural phenomena.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Earth Observations Scientist, Geographer

Job Zone

Title: 5 - Extensive Preparation Needed

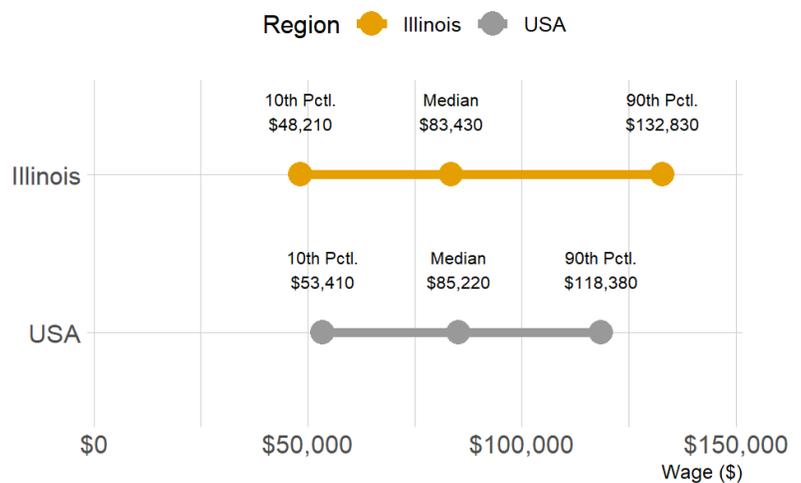
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Adobe Systems Adobe Photoshop, Autodesk AutoCAD, ESRI ArcGIS software, IBM SPSS Statistics, Microsoft Office Suite, Minitab, The MathWorks MATLAB

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 50 | 0.83 | \$83,430 |
| USA | 1,440 | - | \$85,220 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
|--|-----------|-------------------------|

| | | |
|--|------------------|----|
| Create and modify maps, graphs, or diagrams, using geographical information software and related equipment, and principles of cartography, such as coordinate systems, longitude, latitude, elevation, topography, and map scales. | More than weekly | 90 |
|--|------------------|----|

| | | |
|--|-------|----|
| Analyze geographic distributions of physical and cultural phenomena on local, regional, continental, or global scales. | Daily | 90 |
|--|-------|----|

| | | |
|---|-------------------|----|
| Write and present reports of research findings. | More than monthly | 87 |
|---|-------------------|----|

| | | |
|---|------------------|----|
| Gather and compile geographic data from sources such as censuses, field observations, satellite imagery, aerial photographs, and existing maps. | More than weekly | 85 |
|---|------------------|----|

| | | |
|------------------|-------|----|
| Teach geography. | Daily | 82 |
|------------------|-------|----|

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Political Scientists

19-3094.00



Description: Study the origin, development, and operation of political systems. May study topics, such as public opinion, political decisionmaking, and ideology.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Political Scientist, Professor

Job Zone

Title: 5 - Extensive Preparation Needed

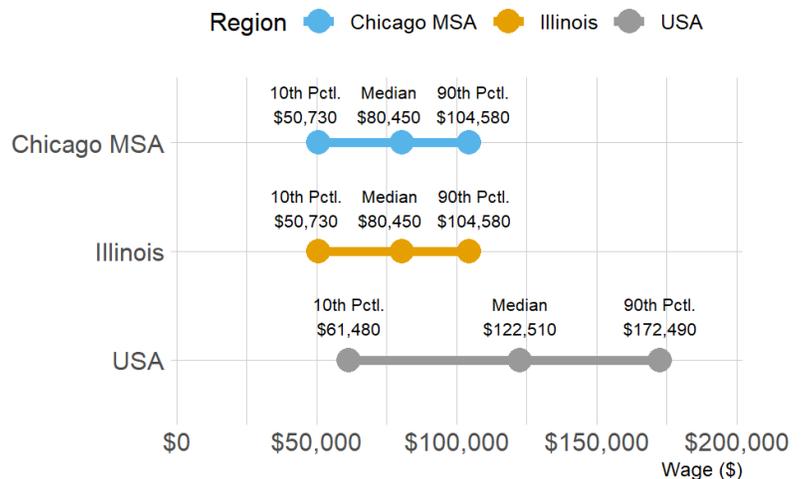
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Adobe Systems Adobe Acrobat, IBM SPSS Statistics, Microsoft Access, Microsoft Active Server Pages ASP, Microsoft Office Suite, Microsoft SharePoint

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 70 | 0.42 | \$80,450 |
| Illinois | 100 | 0.43 | \$80,450 |
| USA | 5,650 | – | \$122,510 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Disseminate research results through academic publications, written reports, or public presentations. | More than yearly | 93 |
| Teach political science. | More than weekly | 90 |
| Develop and test theories, using information from interviews, newspapers, periodicals, case law, historical papers, polls, or statistical sources. | More than yearly | 87 |
| Identify issues for research and analysis. | More than monthly | 84 |
| Maintain current knowledge of government policy decisions. | Daily | 81 |

Biological Technicians

19-4021.00



Description: Assist biological and medical scientists. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, collect data and samples, make observations, and calculate and record results.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Biological Science Laboratory Technician (Biological Science Lab Tech)

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

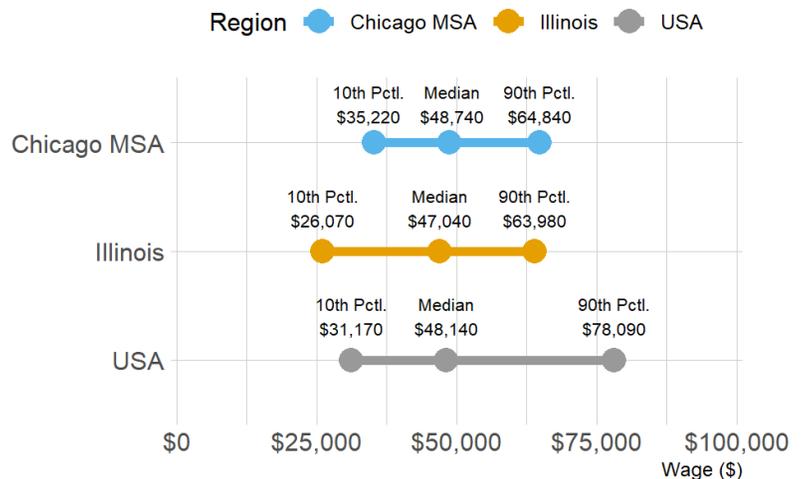
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Professional Collector

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Photoshop, Database software, ESRI ArcGIS software, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,430 | 0.62 | \$48,740 |
| Illinois | 1,780 | 0.59 | \$47,040 |
| USA | 76,150 | – | \$48,140 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Use computers, computer-interfaced equipment, robotics or high-technology industrial applications to perform work duties.

Daily

87

Conduct research, or assist in the conduct of research, including the collection of information and samples, such as blood, water, soil, plants and animals.

Daily

87

Monitor and observe experiments, recording production and test data for evaluation by research personnel.

More than weekly

85

Provide technical support and services for scientists and engineers working in fields such as agriculture, environmental science, resource management, biology, and health sciences.

Daily

84

Analyze experimental data and interpret results to write reports and summaries of findings.

More than weekly

84

Chemical Technicians

19-4031.00



Description: Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Analytical Laboratory Technician (Analytical Lab Technician)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

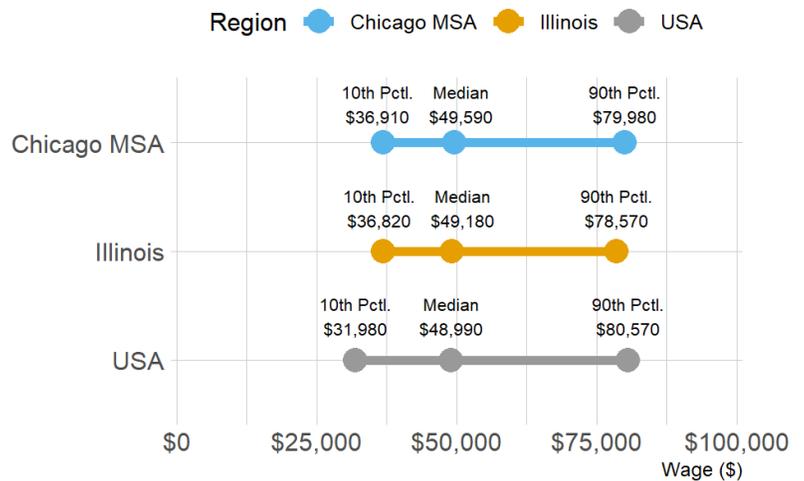
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Clinical Chemistry Technologist, Combustion Analysis Certification

Hot Technologies: C++, Database software, Linux, Microsoft Access, Microsoft Office Suite, Oracle Java, Oracle software, Python

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,780 | 1.03 | \$49,590 |
| Illinois | 2,150 | 0.94 | \$49,180 |
| USA | 57,690 | – | \$48,990 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Conduct chemical or physical laboratory tests to assist scientists in making qualitative or quantitative analyses of solids, liquids, or gaseous materials.

Daily

90

Maintain, clean, or sterilize laboratory instruments or equipment.

Daily

89

Monitor product quality to ensure compliance with standards and specifications.

Hourly or more

87

Set up and conduct chemical experiments, tests, and analyses, using techniques such as chromatography, spectroscopy, physical or chemical separation techniques, or microscopy.

Hourly or more

87

Prepare chemical solutions for products or processes, following standardized formulas, or create experimental formulas.

Daily

87

Environmental Science and Protection Technicians, Including Health

19-4042.00



Description: Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Environmental Technician, Laboratory Technician, Public Health Sanitarian

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

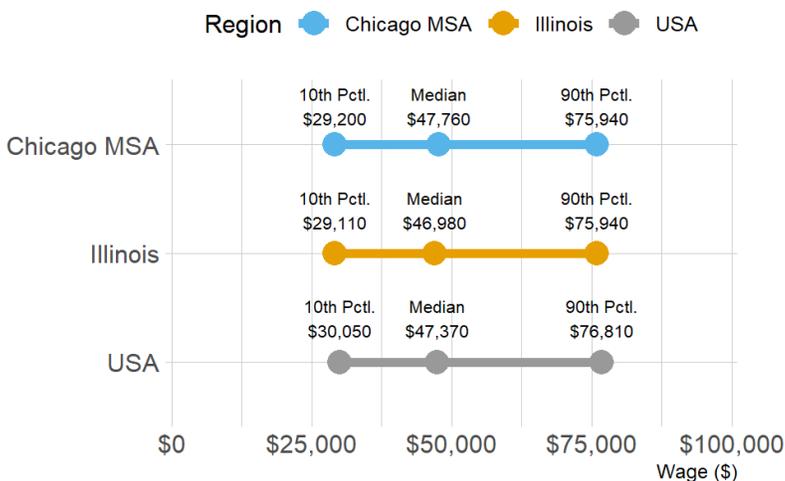
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Radon Measurement Technician

Hot Technologies: Adobe Systems Adobe Acrobat, Autodesk AutoCAD, Autodesk Softdesk, Computer aided design CAD software, Database software, ESRI ArcGIS software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 500 | 0.49 | \$47,760 |
| Illinois | 680 | 0.50 | \$46,980 |
| USA | 34,110 | – | \$47,370 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Discuss test results and analyses with customers. | More than monthly | 85 |
| Record test data and prepare reports, summaries, or charts that interpret test results. | More than weekly | 81 |
| Develop or implement programs for monitoring of environmental pollution or radiation. | More than yearly | 80 |
| Investigate hazardous conditions or spills or outbreaks of disease or food poisoning, collecting samples for analysis. | Yearly or less | 79 |
| Calibrate microscopes or test instruments. | Yearly or less | 78 |

Geological Technicians, Except Hydrologic

Technicians

19-4043.00



Description: Assist scientists or engineers in the use of electronic, sonic, or nuclear measuring instruments in laboratory, exploration, and production activities to obtain data indicating resources such as metallic ore.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Core Inspector, Environmental Field Services Technician

Job Zone

Title: 4 - Considerable Preparation Needed

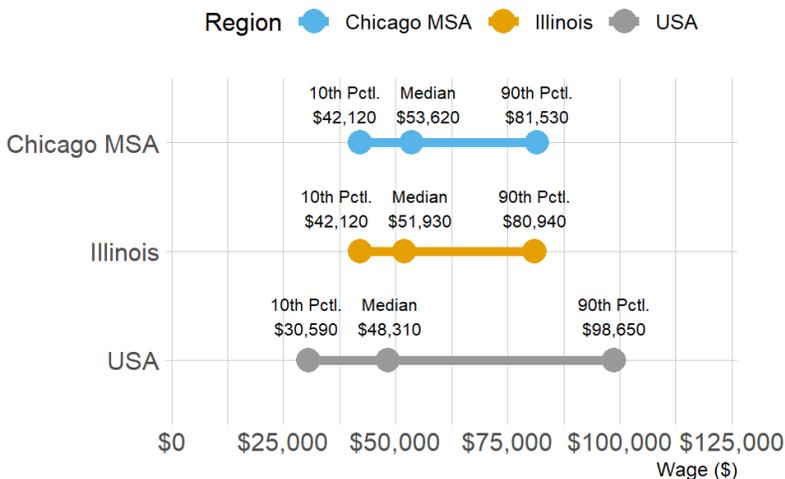
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Illustrator, Autodesk AutoCAD, Database software, Dynamic Graphics EarthVision, ESRI ArcGIS software, Microsoft Access

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 110 | 0.39 | \$53,620 |
| Illinois | 170 | 0.46 | \$51,930 |
| USA | 9,210 | – | \$48,310 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Test and analyze samples to determine their content and characteristics, using laboratory apparatus or testing equipment.

Daily

91

Collect or prepare solid or fluid samples for analysis.

Daily

90

Compile, log, or record testing or operational data for review and further analysis.

Daily

84

Prepare notes, sketches, geological maps, or cross-sections.

More than weekly

83

Participate in geological, geophysical, geochemical, hydrographic, or oceanographic surveys, prospecting field trips, exploratory drilling, well logging, or underground mine survey programs.

Yearly or less

77

Nuclear Technicians

19-4051.00



Description: Assist nuclear physicists, nuclear engineers, or other scientists in laboratory, power generation, or electricity production activities.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Auxiliary Operator, Equipment Operator, Licensed Nuclear Operator

Job Zone

Title: 3 - Medium Preparation Needed

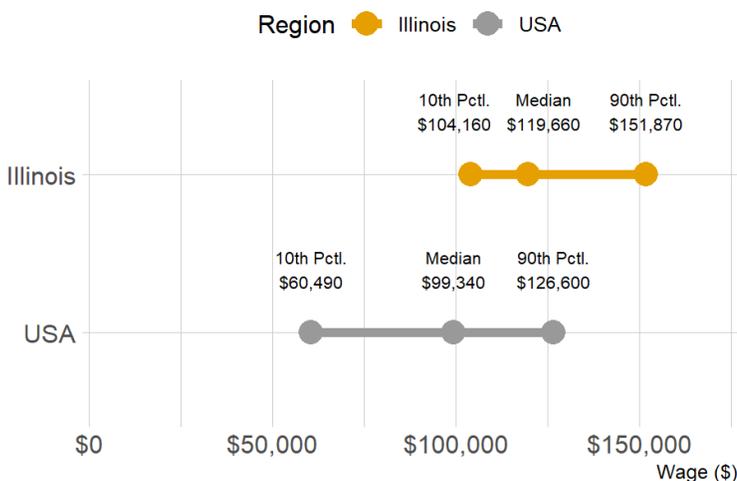
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Database software, Linux, Microsoft Access, Microsoft Office Suite, Structured query language SQL

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 200 | 0.92 | \$119,660 |
| USA | 5,360 | - | \$99,340 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Follow nuclear equipment operational policies and procedures that ensure environmental safety. | Hourly or more | 96 |
| Conduct surveillance testing to determine safety of nuclear equipment. | More than weekly | 95 |
| Monitor nuclear reactor equipment performance to identify operational inefficiencies, hazards, or needs for maintenance or repair. | Daily | 95 |
| Test plant equipment to ensure it is operating properly. | Daily | 93 |
| Apply safety tags to equipment needing maintenance. | Daily | 92 |

Social Science Research Assistants

19-4061.00



Description: Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Clinical Research Assistant, Graduate Assistant

Job Zone

Title: 4 - Considerable Preparation Needed

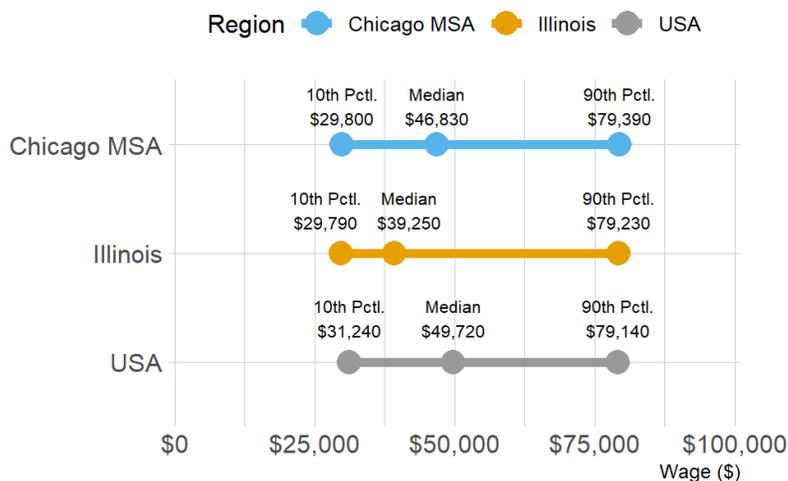
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign, Database software, ESRI ArcGIS software, IBM SPSS Statistics, Microsoft Access

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 490 | 0.57 | \$46,830 |
| Illinois | 590 | 0.52 | \$39,250 |
| USA | 28,690 | – | \$49,720 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
|---|-----------|-------------------------|

| | | |
|--|-------------------|----|
| Design and create special programs for tasks such as statistical analysis and data entry and cleaning. | More than monthly | 89 |
| Provide assistance with the preparation of project-related reports, manuscripts, and presentations. | More than yearly | 85 |
| Prepare tables, graphs, fact sheets, and written reports summarizing research results. | More than yearly | 85 |
| Perform descriptive and multivariate statistical analyses of data, using computer software. | More than weekly | 82 |
| Verify the accuracy and validity of data entered in databases, correcting any errors. | More than monthly | 81 |

Forest and Conservation Technicians

19-4071.00



Description: Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Biological Science Aide, Forest Technician, Forestry Aide

Job Zone

Title: 3 - Medium Preparation Needed

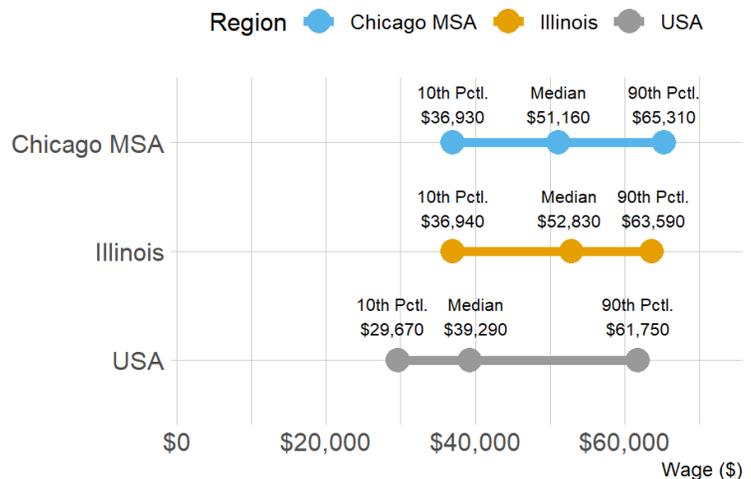
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD LT, Computer aided design CAD software, Database software, ESRI ArcGIS software, Facebook, Microsoft Access

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 330 | 0.37 | \$51,160 |
| Illinois | - | - | \$52,830 |
| USA | 30,440 | - | \$39,290 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|-------------------|----|
| Thin and space trees and control weeds and undergrowth, using manual tools and chemicals, or supervise workers performing these tasks. | More than weekly | 77 |
| Train and lead forest and conservation workers in seasonal activities, such as planting tree seedlings, putting out forest fires, and maintaining recreational facilities. | More than weekly | 74 |
| Patrol park or forest areas to protect resources and prevent damage. | More than monthly | 69 |
| Provide information about, and enforce, regulations, such as those concerning environmental protection, resource utilization, fire safety, and accident prevention. | More than weekly | 69 |
| Map forest tract data using digital mapping systems. | More than monthly | 65 |

Occupational Health and Safety Specialists

19-5011.00



Description: Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Certified Industrial Hygienist (CIH), Chemical Hygiene Officer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

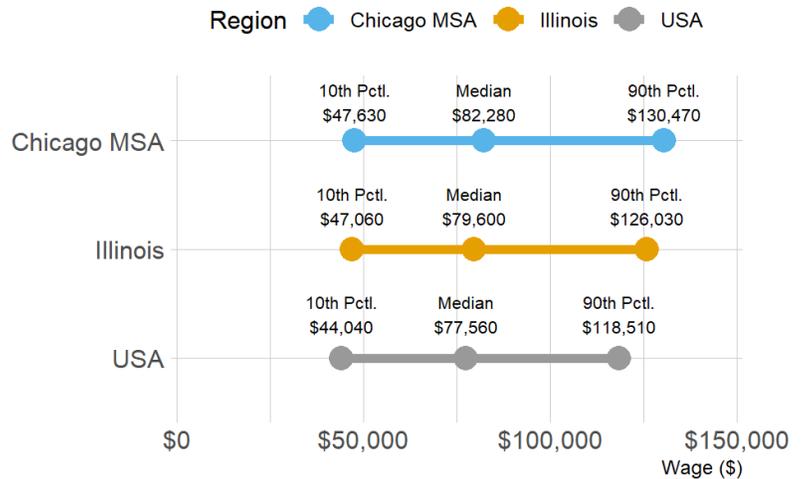
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Associate Safety and Health Manager, Certified Safety and Security Officer, Medical Review Officer Certification, Certified Safety Professional

Hot Technologies: Database software, Microsoft Access, Microsoft Active Server Pages ASP, Microsoft Office Suite, Microsoft SharePoint

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,340 | 0.42 | \$82,280 |
| Illinois | 1,820 | 0.43 | \$79,600 |
| USA | 106,340 | - | \$77,560 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|-------------------|----|
| Recommend measures to help protect workers from potentially hazardous work methods, processes, or materials. | More than weekly | 91 |
| Order suspension of activities that pose threats to workers' health or safety. | Yearly or less | 90 |
| Investigate accidents to identify causes or to determine how such accidents might be prevented in the future. | More than monthly | 89 |
| Develop or maintain hygiene programs, such as noise surveys, continuous atmosphere monitoring, ventilation surveys, or asbestos management plans. | More than yearly | 85 |
| Inspect or evaluate workplace environments, equipment, or practices to ensure compliance with safety standards and government regulations. | More than weekly | 85 |



Occupational Health and Safety Technicians

19-5012.00



Description: Collect data on work environments for analysis by occupational health and safety specialists.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Advisory Industrial Hygienist, Certified Industrial Hygienist (CIH)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

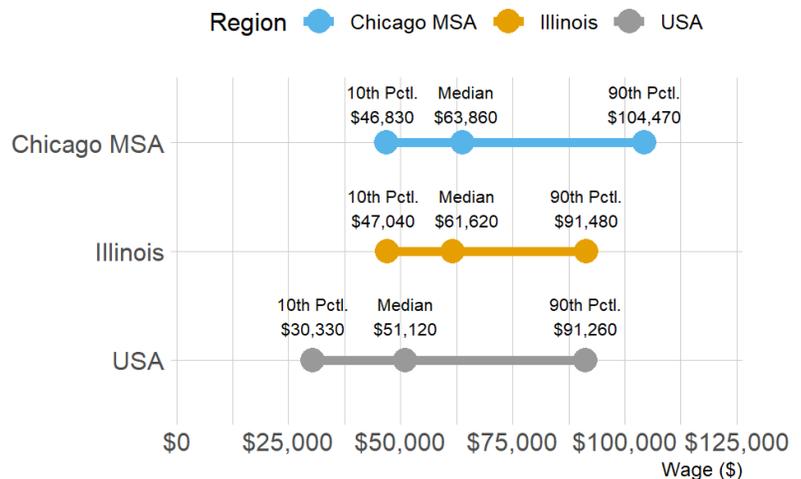
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Medical Review Officer Certification, Certified Safety Professional, Occupational Hygiene and Safety Technician

Hot Technologies: Database software, Microsoft Access, Microsoft Office Suite, Microsoft SharePoint, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 600 | 0.92 | \$63,860 |
| Illinois | 760 | 0.88 | \$61,620 |
| USA | 21,750 | - | \$51,120 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Test workplaces for environmental hazards, such as exposure to radiation, chemical or biological hazards, or excessive noise. | More than monthly | 96 |
| Prepare or calibrate equipment used to collect or analyze samples. | More than monthly | 92 |
| Maintain all required environmental records and documentation. | Daily | 89 |
| Supply, operate, or maintain personal protective equipment. | Daily | 89 |
| Prepare or review specifications or orders for the purchase of safety equipment, ensuring that proper features are present and that items conform to health and safety standards. | More than yearly | 87 |



Social and Human Service Assistants

21-1093.00



Description: Assist other social and human service providers in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Addictions Counselor Assistant, Advocate, Clinical Assistant

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

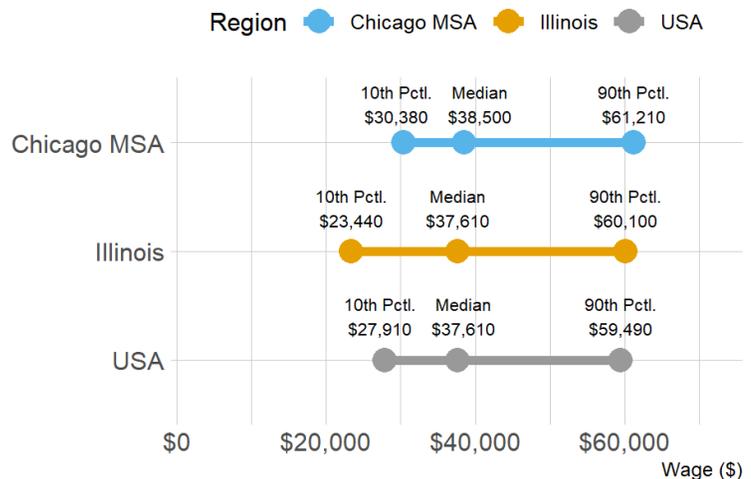
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Community Action Professional, Child Development Associate, Certified Employment Support Specialist, Case Manager Certification

Hot Technologies: Database software, MEDITECH software, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 9,750 | 0.81 | \$38,500 |
| Illinois | 16,440 | 1.04 | \$37,610 |
| USA | 398,380 | – | \$37,610 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
|---|-----------|-------------------------|

| | | |
|---|-------------------|----|
| Assess clients' cognitive abilities and physical and emotional needs to determine appropriate interventions. | Daily | 87 |
| Develop and implement behavioral management and care plans for clients. | More than monthly | 83 |
| Keep records or prepare reports for owner or management concerning visits with clients. | Daily | 80 |
| Visit individuals in homes or attend group meetings to provide information on agency services, requirements, or procedures. | Daily | 79 |
| Submit reports and review reports or problems with superior. | More than weekly | 79 |

Judicial Law Clerks

23-1012.00



Description: Assist judges in court or by conducting research or preparing legal documents.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Appellate Law Clerk, Career Judicial Law Clerk, Career Law Clerk

Job Zone

Title: 5 - Extensive Preparation Needed

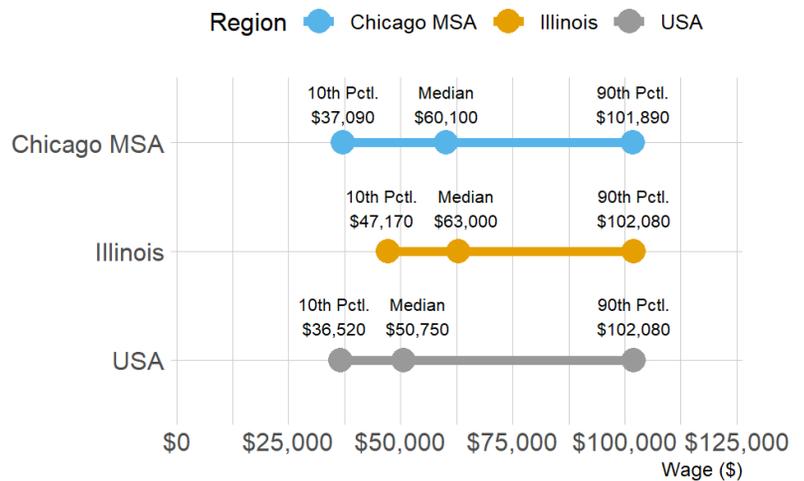
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Adobe Systems Adobe Acrobat, Microsoft Access, Microsoft Office Suite, Oracle JavaServer Pages JSP

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 270 | 0.61 | \$60,100 |
| Illinois | 300 | 0.50 | \$63,000 |
| USA | 14,800 | – | \$50,750 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|---|----------------|-------------------------|
| Prepare briefs, legal memoranda, or statements of issues involved in cases, including appropriate suggestions or recommendations. | Daily | 97 |
| Research laws, court decisions, documents, opinions, briefs, or other information related to cases before the court. | Hourly or more | 97 |
| Draft or proofread judicial opinions, decisions, or citations. | Daily | 96 |
| Confer with judges concerning legal questions, construction of documents, or granting of orders. | Daily | 93 |
| Review complaints, petitions, motions, or pleadings that have been filed to determine issues involved or basis for relief. | Daily | 93 |

Administrative Law Judges, Adjudicators, and Hearing Officers

23-1021.00



Description: Conduct hearings to recommend or make decisions on claims concerning government programs or other government-related matters.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Adjudications Specialist, Adjudicator, Administrative Hearings Officer

Job Zone

Title: 5 - Extensive Preparation Needed

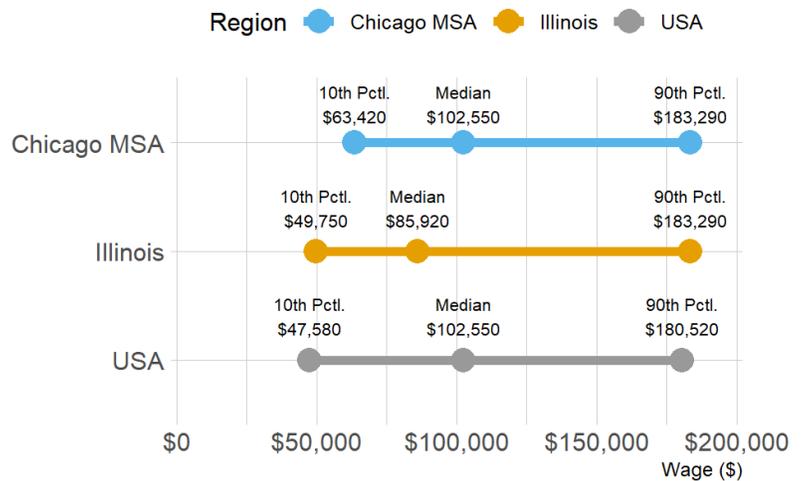
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Adobe Systems Adobe Acrobat, Microsoft Access, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 350 | 0.84 | \$102,550 |
| Illinois | 540 | 0.98 | \$85,920 |
| USA | 13,840 | - | \$102,550 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Determine existence and amount of liability according to current laws, administrative and judicial precedents, and available evidence. | Daily | 94 |
| Prepare written opinions and decisions. | Daily | 93 |
| Monitor and direct the activities of trials and hearings to ensure that they are conducted fairly and that courts administer justice while safeguarding the legal rights of all involved parties. | Several times daily | 93 |
| Authorize payment of valid claims and determine method of payment. | Hourly or more | 92 |
| Conduct hearings to review and decide claims regarding issues, such as social program eligibility, environmental protection, or enforcement of health and safety regulations. | Several times daily | 92 |

Arbitrators, Mediators, and Conciliators

23-1022.00



Description: Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Alternative Dispute Resolution Coordinator (ADR Coordinator), Arbitrer

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

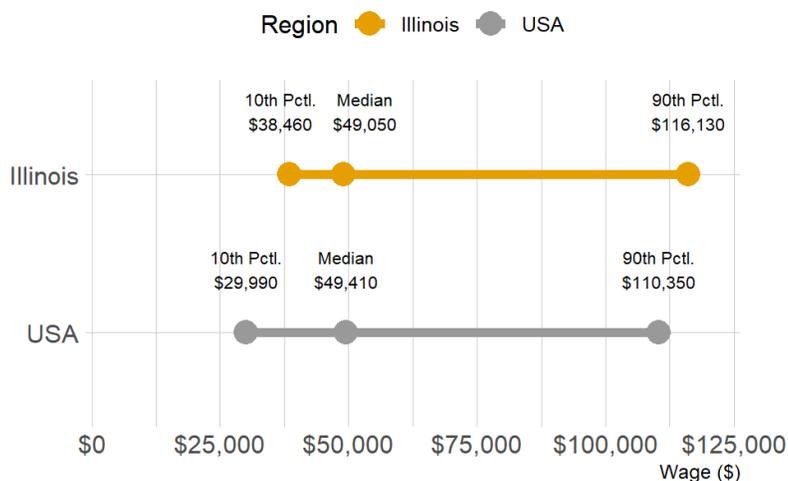
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Certified Professional Facilitator

Hot Technologies: Enterprise resource planning ERP software, Microsoft Access, Microsoft Office Suite, Microsoft SharePoint, Oracle PeopleSoft, Salesforce software

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | - | - | \$49,050 |
| USA | 7,320 | - | \$49,410 |



Top 5 Core Tasks According to Current Job Holders

Frequency Importance
(out of 100)

| | | |
|---|-------------------|----|
| Prepare written opinions or decisions regarding cases. | More than monthly | 98 |
| Apply relevant laws, regulations, policies, or precedents to reach conclusions. | More than monthly | 94 |
| Conduct hearings to obtain information or evidence relative to disposition of claims. | More than weekly | 93 |
| Use mediation techniques to facilitate communication between disputants, to further parties' understanding of different perspectives, and to guide parties toward mutual agreement. | More than weekly | 91 |
| Confer with disputants to clarify issues, identify underlying concerns, and develop an understanding of their respective needs and interests. | More than monthly | 86 |



Paralegals and Legal Assistants

23-2011.00



Description: Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Certified Paralegal, Corporate Law Assistant, Law Associate

Job Zone

Title: 3 - Medium Preparation Needed

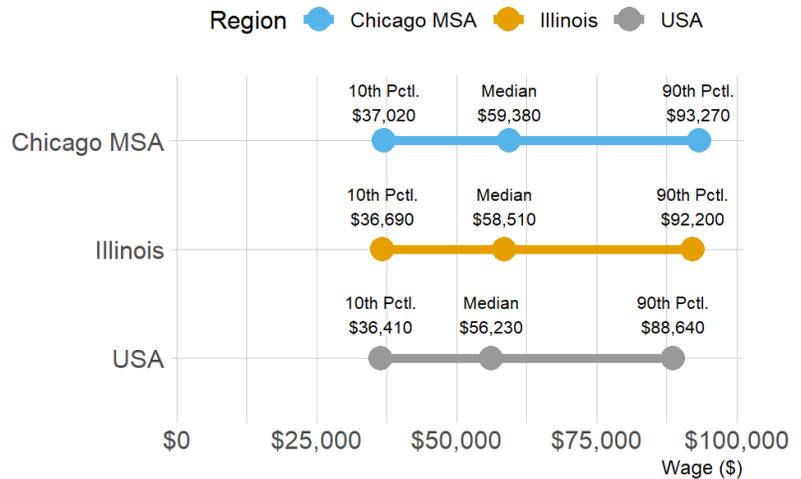
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Database software, Google Docs, Google Drive, IBM Notes, Intuit QuickBooks, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 11,990 | 1.19 | \$59,380 |
| Illinois | 13,630 | 1.02 | \$58,510 |
| USA | 336,250 | - | \$56,230 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|---------------------|----|
| Prepare affidavits or other documents, such as legal correspondence, and organize and maintain documents in paper or electronic filing system. | Several times daily | 86 |
| Prepare legal documents, including briefs, pleadings, appeals, wills, contracts, and real estate closing statements. | Daily | 84 |
| Prepare for trial by performing tasks such as organizing exhibits. | More than yearly | 79 |
| Investigate facts and law of cases and search pertinent sources, such as public records and internet sources, to determine causes of action and to prepare cases. | More than monthly | 78 |
| Meet with clients and other professionals to discuss details of case. | More than weekly | 77 |



Farm and Home Management Educators

25-9021.00



Description: Instruct and advise individuals and families engaged in agriculture, agricultural-related processes, or home management activities.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: 4-H Youth Development Specialist, Agricultural Extension Educator

Job Zone

Title: 5 - Extensive Preparation Needed

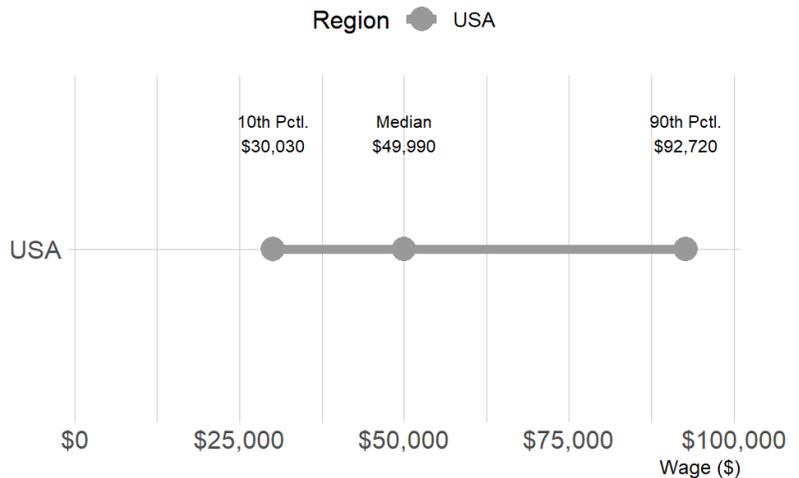
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: ESRI ArcGIS software, Microsoft Dynamics, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 10,620 | - | \$49,990 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Collect and evaluate data to determine community program needs. | More than yearly | 89 |
| Prepare and distribute leaflets, pamphlets, and visual aids for educational and informational purposes. | More than monthly | 88 |
| Collaborate with producers to diagnose and prevent management and production problems. | More than monthly | 86 |
| Conduct classes or deliver lectures on subjects such as nutrition, home management, and farming techniques. | More than monthly | 86 |
| Research information requested by farmers. | More than monthly | 86 |

Commercial and Industrial Designers

27-1021.00



Description: Design and develop manufactured products, such as cars, home appliances, and children's toys.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Design Engineer, Designer, Industrial Designer

Job Zone

Title: 4 - Considerable Preparation Needed

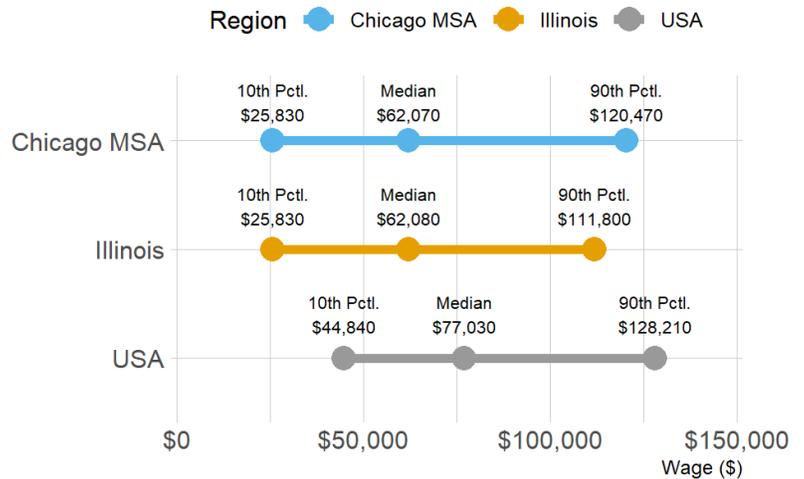
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe After Effects, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 270 | 0.32 | \$62,070 |
| Illinois | 360 | 0.32 | \$62,080 |
| USA | 27,940 | - | \$77,030 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Prepare sketches of ideas, detailed drawings, illustrations, artwork, or blueprints, using drafting instruments, paints and brushes, or computer-aided design equipment.

Hourly or more **88**

Modify and refine designs, using working models, to conform with customer specifications, production limitations, or changes in design trends.

Daily **87**

Evaluate feasibility of design ideas, based on factors such as appearance, safety, function, serviceability, budget, production costs/methods, and market characteristics.

More than monthly **82**

Confer with engineering, marketing, production, or sales departments, or with customers, to establish and evaluate design concepts for manufactured products.

Daily **79**

Present designs and reports to customers or design committees for approval and discuss need for modification.

More than monthly **79**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Interior Designers

27-1025.00



Description: Plan, design, and furnish the internal space of rooms or buildings. Design interior environments or create physical layouts that are practical, aesthetic, and conducive to the intended purposes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Decorating Consultant, Designer, Interior Design Consultant

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

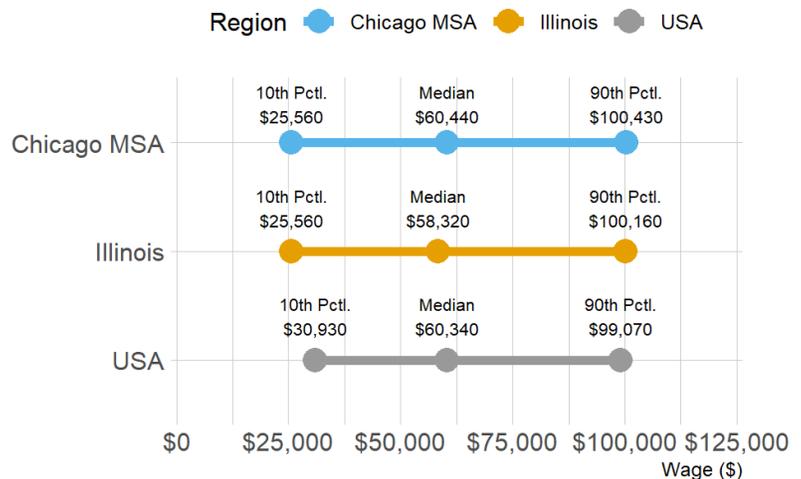
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Lighting Associate, Certified Interior Decorator, Certified Kitchen and Bath Designer, Universal Design Certified Remodeler

Hot Technologies: 20-20 Technologies 20-20 Design, Adobe Systems Adobe Acrobat, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,080 | 1.12 | \$60,440 |
| Illinois | 2,390 | 0.97 | \$58,320 |
| USA | 61,970 | - | \$60,340 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|---------------------|-------------------------|
| Design plans to be safe and to be compliant with the American Disabilities Act (ADA). | More than monthly | 99 |
| Coordinate with other professionals, such as contractors, architects, engineers, and plumbers, to ensure job success. | Several times daily | 95 |
| Inspect construction work on site to ensure its adherence to the design plans. | More than monthly | 90 |
| Confer with client to determine factors affecting planning of interior environments, such as budget, architectural preferences, purpose, and function. | More than weekly | 89 |
| Advise client on interior design factors, such as space planning, layout and use of furnishings or equipment, and color coordination. | More than weekly | 89 |

Public Relations Specialists

27-3031.00



Description: Promote or create an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media. May specialize in using social media.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Communications Specialist, Corporate Communications Specialist

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

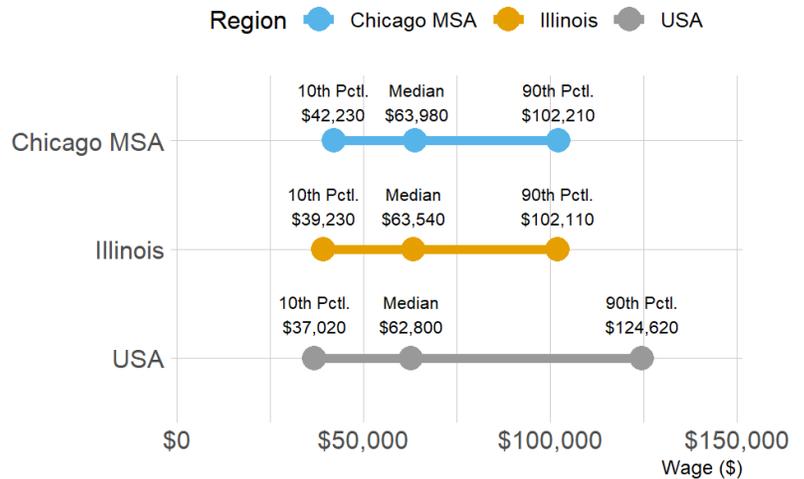
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Product Manager, Incentive Professional

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe After Effects, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 4,600 | 0.63 | \$63,980 |
| Illinois | 5,720 | 0.59 | \$63,540 |
| USA | 242,710 | - | \$62,800 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|-------------------|----|
| Respond to requests for information from the media or designate an appropriate spokesperson or information source. | More than weekly | 89 |
| Write press releases or other media communications to promote clients. | More than monthly | 86 |
| Establish or maintain cooperative relationships with representatives of community, consumer, employee, or public interest groups. | More than monthly | 83 |
| Plan or direct development or communication of programs to maintain favorable public or stockholder perceptions of an organization's accomplishments, agenda, or environmental responsibility. | More than monthly | 82 |
| Study the objectives, promotional policies, or needs of organizations to develop public relations strategies that will influence public opinion or promote ideas, products, or services. | More than monthly | 80 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Technical Writers

27-3042.00



Description: Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Documentation Designer, Documentation Specialist, Engineering Writer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

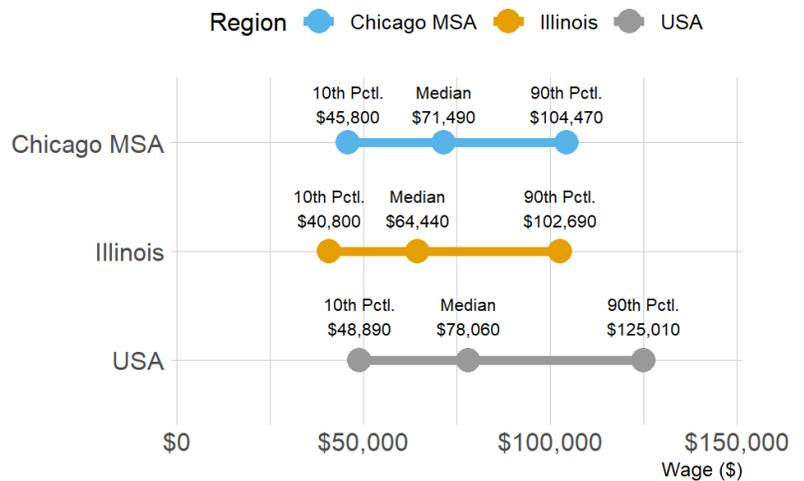
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Professional Technical Communicator - Foundational

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,260 | 0.88 | \$71,490 |
| Illinois | 1,620 | 0.85 | \$64,440 |
| USA | 47,620 | - | \$78,060 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Organize material and complete writing assignment according to set standards regarding order, clarity, conciseness, style, and terminology. | Hourly or more | 94 |
| Maintain records and files of work and revisions. | Daily | 85 |
| Edit, standardize, or make changes to material prepared by other writers or establishment personnel. | More than weekly | 81 |
| Select photographs, drawings, sketches, diagrams, and charts to illustrate material. | Daily | 80 |
| Interview production and engineering personnel and read journals and other material to become familiar with product technologies and production methods. | More than weekly | 79 |

Writers and Authors

27-3043.00



Description: Originate and prepare written material, such as scripts, stories, advertisements, and other material.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Advertising Associate, Advertising Copy Writer, Advertising Writer

Job Zone

Title: 4 - Considerable Preparation Needed

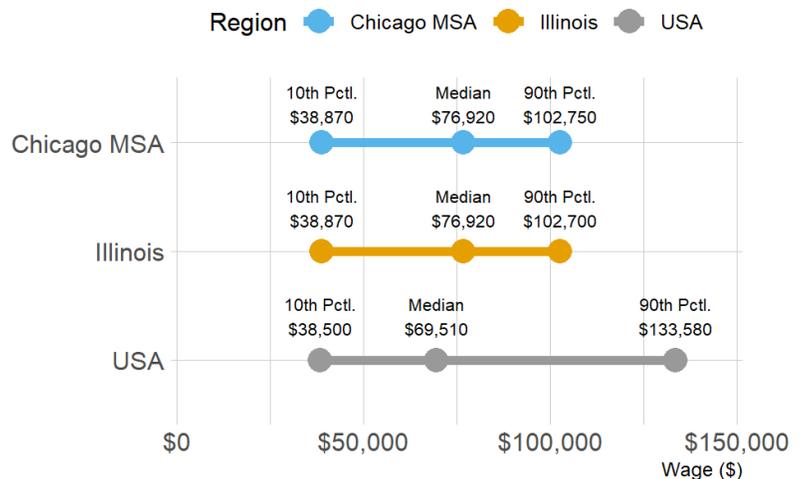
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe After Effects, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,850 | 1.92 | \$76,920 |
| Illinois | 3,150 | 1.60 | \$76,920 |
| USA | 49,410 | – | \$69,510 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Discuss with the client the product, advertising themes and methods, and any changes that should be made in advertising copy.

Daily

91

Present drafts and ideas to clients.

Daily

87

Vary language and tone of messages based on product and medium.

Daily

87

Develop advertising campaigns for a wide range of clients, working with an advertising agency's creative director and art director to determine the best way to present advertising information.

More than monthly

83

Write articles, bulletins, sales letters, speeches, and other related informative, marketing and promotional material.

Daily

81

Audio and Video Technicians

27-4011.00



Description: Set up, maintain, and dismantle audio and video equipment, such as microphones, sound speakers, connecting wires and cables, sound and mixing boards, video cameras, video monitors and servers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Audio Technician, Audio Visual Specialist (AV Specialist)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

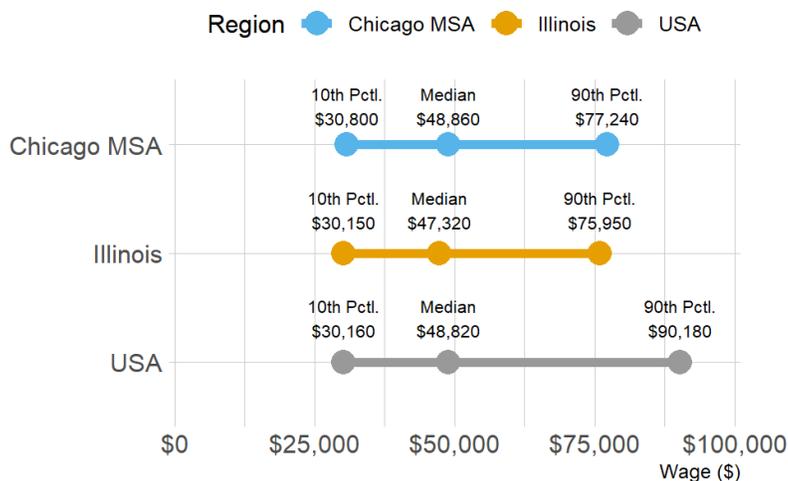
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Video Security Systems Technician II, Video Security Systems Technician III, Video Security Systems Technician I, Certified Technology Specialist

Hot Technologies: Adobe Systems Adobe After Effects, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,810 | 1.19 | \$48,860 |
| Illinois | 2,350 | 1.17 | \$47,320 |
| USA | 50,590 | - | \$48,820 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Notify supervisors when major equipment repairs are needed.

More than yearly
 82

Diagnose and resolve media system problems.

More than weekly
 77

Compress, digitize, duplicate, and store audio and video data.

More than weekly
 74

Direct and coordinate activities of assistants and other personnel during production.

More than monthly
 74

Install, adjust, and operate electronic equipment to record, edit, and transmit radio and television programs, motion pictures, video conferencing, or multimedia presentations.

More than weekly
 74



Forest Fire Inspectors and Prevention Specialists

33-2022.00



Description: Enforce fire regulations, inspect forest for fire hazards, and recommend forest fire prevention or control measures. May report forest fires and weather conditions.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Fire Management Officer, Fire Operations Forester, Fire Prevention Officer

Job Zone

Title: 3 - Medium Preparation Needed

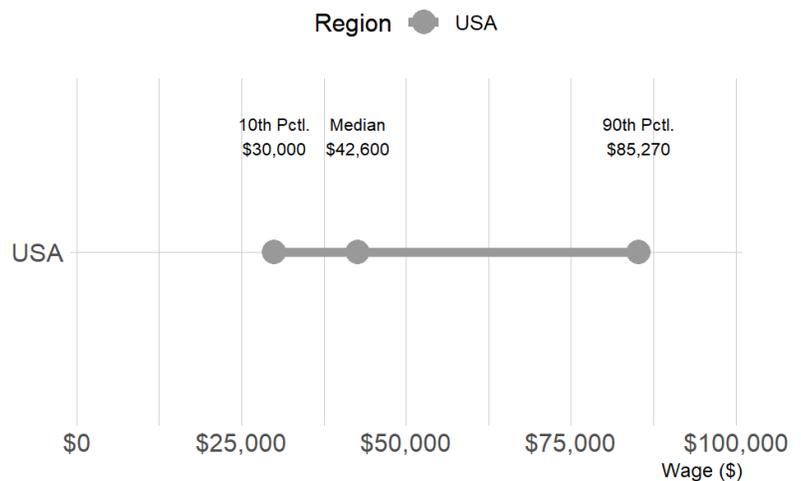
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Amazon Web Services AWS CloudFormation, Amazon Web Services AWS software, Ansible software, Enterprise resource planning ERP software, Facebook, Git

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 2,770 | - | \$42,600 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Relay messages about emergencies, accidents, locations of crew and personnel, and fire hazard conditions. | More than monthly | 91 |
| Estimate sizes and characteristics of fires, and report findings to base camps by radio or telephone. | More than monthly | 87 |
| Conduct wildland firefighting training. | More than yearly | 87 |
| Direct crews working on firelines during forest fires. | More than monthly | 86 |
| Locate forest fires on area maps, using azimuth sighters and known landmarks. | More than monthly | 86 |

Fish and Game Wardens

33-3031.00



Description: Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Fisheries Enforcement Officer, Game Warden, Natural Resource Officer

Job Zone

Title: 4 - Considerable Preparation Needed

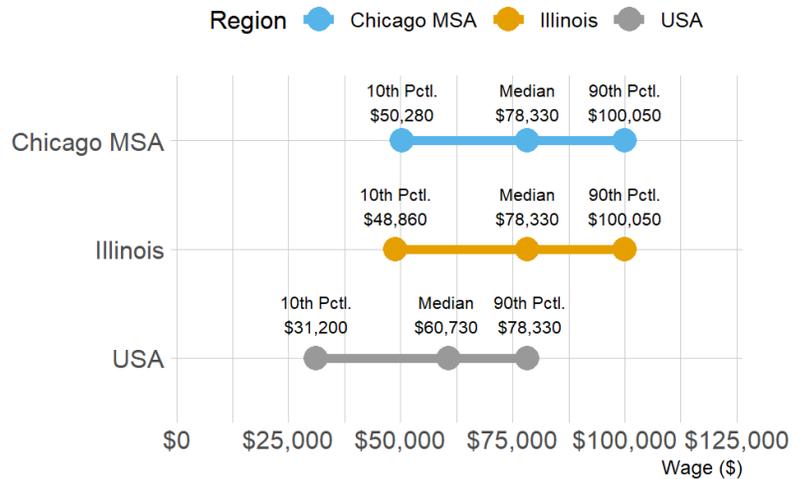
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Database software, Microsoft Office Suite, Puppet, Swift

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 90 | 0.42 | \$78,330 |
| Illinois | 180 | 0.68 | \$78,330 |
| USA | 6,730 | - | \$60,730 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Patrol assigned areas by car, boat, airplane, horse, or on foot to enforce game, fish, or boating laws or to manage wildlife programs, lakes, or land. | Daily | 95 |
| Compile and present evidence for court actions. | More than monthly | 92 |
| Protect and preserve native wildlife, plants, or ecosystems. | Daily | 91 |
| Investigate hunting accidents or reports of fish or game law violations. | More than weekly | 91 |
| Issue warnings or citations and file reports as necessary. | More than weekly | 90 |

Transit and Railroad Police

33-3052.00



Description: Protect and police railroad and transit property, employees, or passengers.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Law Enforcement Officer, Patrol Man, Patrol Officer

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

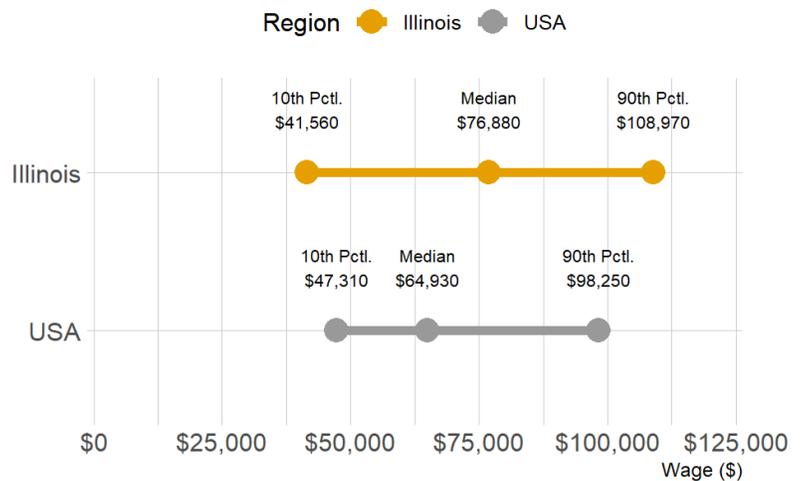
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Protection Officer

Hot Technologies: Microsoft Active Server Pages ASP, Microsoft Office Suite, SmugMug Flickr

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 100 | 0.71 | \$76,880 |
| USA | 3,590 | - | \$64,930 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Prepare reports documenting investigation activities and results. | Daily | 87 |
| Monitor transit areas and conduct security checks to protect railroad properties, patrons, and employees. | Daily | 85 |
| Apprehend or remove trespassers or thieves from railroad property or coordinate with law enforcement agencies in apprehensions and removals. | Daily | 83 |
| Patrol railroad yards, cars, stations, or other facilities to protect company property or shipments and to maintain order. | Daily | 82 |
| Direct security activities at derailments, fires, floods, or strikes involving railroad property. | Yearly or less | 82 |

Transportation Security Screeners

33-9093.00



Description: Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Security Screener, Transportation Security Officer (TSO)

Job Zone

Title: 2 - Some Preparation Needed

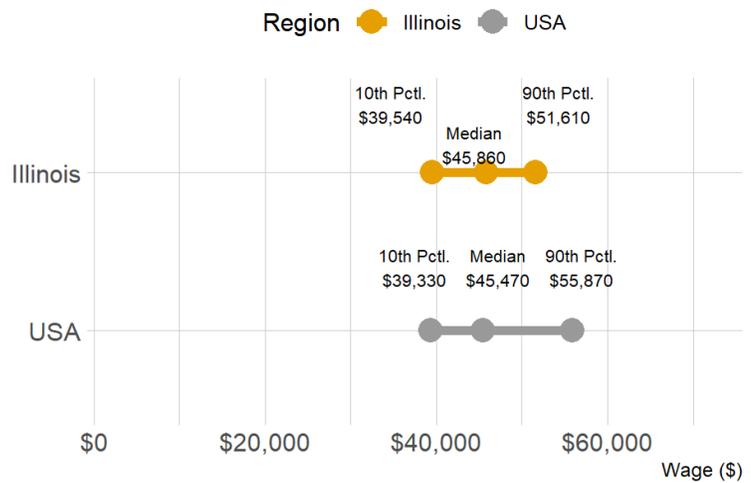
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Linux, Microsoft Office Suite, Oracle Java, Oracle Taleo

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 1,950 | 1.01 | \$45,860 |
| USA | 48,320 | - | \$45,470 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
|--|-----------|-------------------------|

| | | |
|---|------------------|----|
| Inspect carry-on items, using x-ray viewing equipment, to determine whether items contain objects that warrant further investigation. | Hourly or more | 98 |
| Search carry-on or checked baggage by hand when it is suspected to contain prohibited items such as weapons. | Hourly or more | 96 |
| Check passengers' tickets to ensure that they are valid, and to determine whether passengers have designations that require special handling, such as providing photo identification. | Hourly or more | 94 |
| Test baggage for any explosive materials, using equipment such as explosive detection machines or chemical swab systems. | Hourly or more | 94 |
| Notify supervisors or other appropriate personnel when security breaches occur. | More than yearly | 93 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Pesticide Handlers, Sprayers, and Applicators, Vegetation

37-3012.00



Description: Mix or apply pesticides, herbicides, fungicides, or insecticides through sprays, dusts, vapors, soil incorporation, or chemical application on trees, shrubs, lawns, or crops.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Chemical Applicator

Job Zone

Title: 2 - Some Preparation Needed

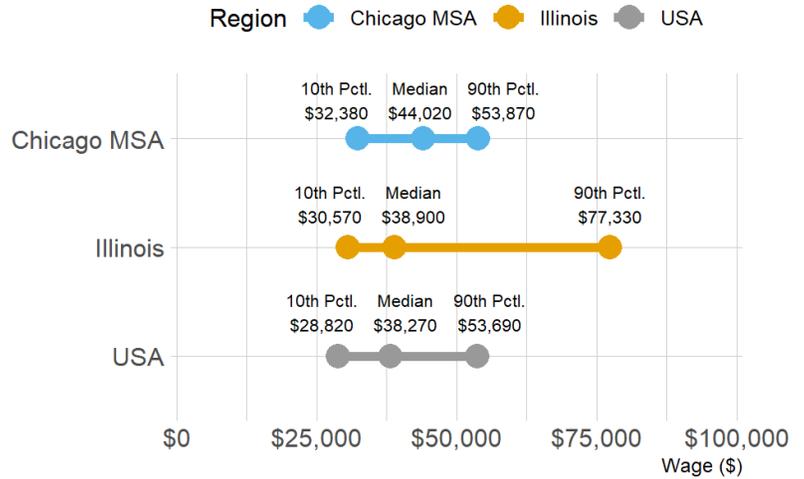
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Facebook, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 310 | 0.40 | \$44,020 |
| Illinois | 1,410 | 1.37 | \$38,900 |
| USA | 25,820 | - | \$38,270 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|----------------|----|
| Mix pesticides, herbicides, or fungicides for application to trees, shrubs, lawns, or botanical crops. | Daily | 90 |
| Fill sprayer tanks with water and chemicals, according to formulas. | Daily | 89 |
| Lift, push, and swing nozzles, hoses, and tubes to direct spray over designated areas. | Daily | 86 |
| Identify lawn or plant diseases to determine the appropriate course of treatment. | Hourly or more | 86 |
| Cover areas to specified depths with pesticides, applying knowledge of weather conditions, droplet sizes, elevation-to-distance ratios, and obstructions. | Daily | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Tree Trimmers and Pruners

37-3013.00



Description: Using sophisticated climbing and rigging techniques, cut away dead or excess branches from trees or shrubs to maintain right-of-way for roads, sidewalks, or utilities, or to improve appearance, health.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Arborist, Climber, Grounds Worker

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

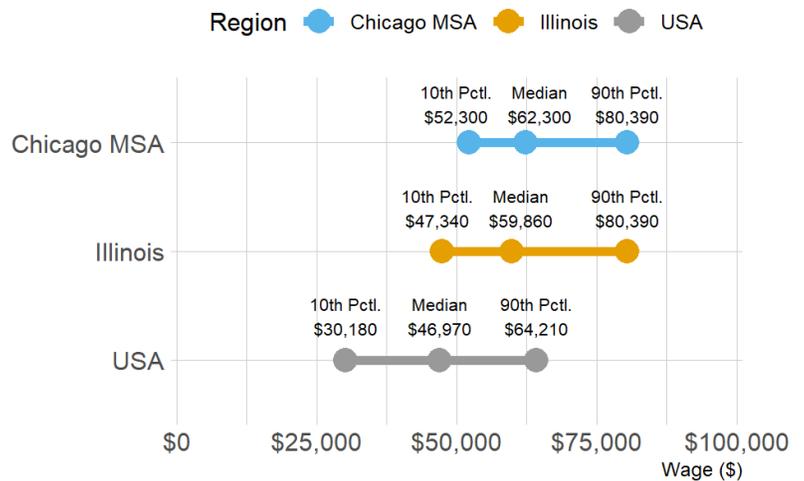
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Treecare Safety Specialist, Certified Arborist

Hot Technologies: Facebook, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 300 | 0.24 | \$62,300 |
| Illinois | 420 | 0.25 | \$59,860 |
| USA | 41,920 | – | \$46,970 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|-------|----|
| Operate shredding and chipping equipment, and feed limbs and brush into the machines. | Daily | 88 |
| Operate boom trucks, loaders, stump chippers, brush chippers, tractors, power saws, trucks, sprayers, and other equipment and tools. | Daily | 87 |
| Clean, sharpen, and lubricate tools and equipment. | Daily | 87 |
| Cut away dead and excess branches from trees, or clear branches around power lines, using climbing equipment or buckets of extended truck booms, or chainsaws, hooks, handsaws, shears, and clippers. | Daily | 87 |
| Hoist tools and equipment to tree trimmers, and lower branches with ropes or block and tackle. | Daily | 85 |

Recreation Workers

39-9032.00



Description: Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Activities Assistant, Activities Director, Activity Aide

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

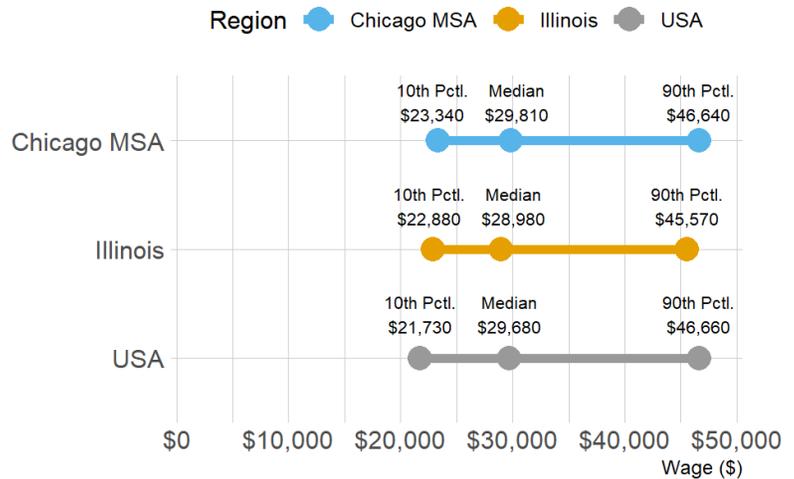
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Cruise Counsellor, Certified Pool and Spa Operator, Certified Park and Recreation Professional

Hot Technologies: Database software, Microsoft Office Suite, YouTube

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,980 | 1.01 | \$29,810 |
| Illinois | 10,460 | 0.99 | \$28,980 |
| USA | 264,020 | - | \$29,680 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Enforce rules and regulations of recreational facilities to maintain discipline and ensure safety. | Daily | 87 |
| Organize, lead, and promote interest in recreational activities, such as arts, crafts, sports, games, camping, and hobbies. | Daily | 86 |
| Assess the needs and interests of individuals and groups and plan activities accordingly, given the available equipment or facilities. | Daily | 86 |
| Manage the daily operations of recreational facilities. | Daily | 85 |
| Administer first aid according to prescribed procedures and notify emergency medical personnel when necessary. | More than yearly | 84 |

Real Estate Sales Agents

41-9022.00



Description: Rent, buy, or sell property for clients.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Real Estate Agent, Real Estate Salesperson, Realtor

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

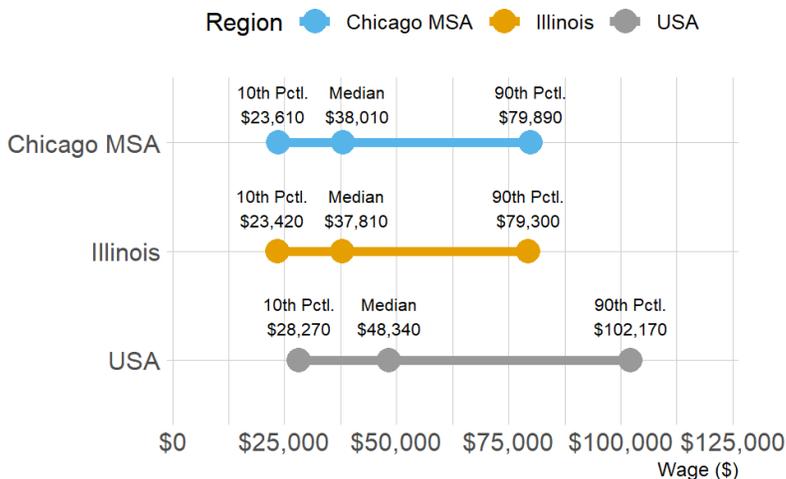
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified New Home Marketing Professional, Certified New Home Sales Professional, Professional Housing Consultant

Hot Technologies: Adobe Systems Adobe Acrobat, ESRI ArcGIS software, Facebook, Google Docs, Google Drive, Intuit QuickBooks, LinkedIn, Microsoft Dynamics

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,430 | 0.65 | \$38,010 |
| Illinois | 4,390 | 0.63 | \$37,810 |
| USA | 175,920 | - | \$48,340 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|---------------------|----|
| Present purchase offers to sellers for consideration. | More than weekly | 97 |
| Prepare documents such as representation contracts, purchase agreements, closing statements, deeds, and leases. | Daily | 97 |
| Act as an intermediary in negotiations between buyers and sellers, generally representing one or the other. | Daily | 96 |
| Confer with escrow companies, lenders, home inspectors, and pest control operators to ensure that terms and conditions of purchase agreements are met before closing dates. | Daily | 94 |
| Generate lists of properties that are compatible with buyers' needs and financial resources. | Several times daily | 94 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Sales Engineers

41-9031.00



Description: Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Product Sales Engineer, Sales Engineer, Technical Sales Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

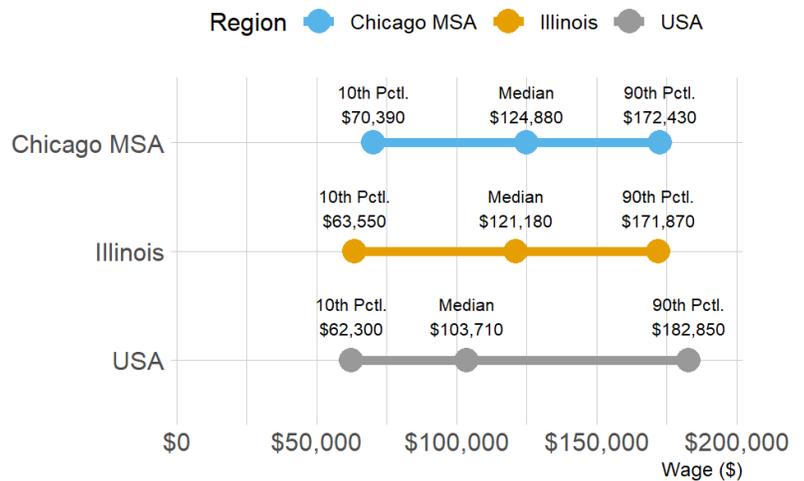
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified New Home Sales Professional

Hot Technologies: Ab Initio, Apache Cassandra, Apache Hadoop, Apache Pig, Apache Struts, Autodesk AutoCAD, C++, Extensible markup language XML

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,130 | 0.63 | \$124,880 |
| Illinois | 1,370 | 0.58 | \$121,180 |
| USA | 59,550 | – | \$103,710 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Collaborate with sales teams to understand customer requirements, to promote the sale of company products, and to provide sales support.

Daily **85**

Sell products requiring extensive technical expertise and support for installation and use, such as material handling equipment, numerical-control machinery, or computer systems.

More than monthly **84**

Plan and modify product configurations to meet customer needs.

More than monthly **83**

Confer with customers and engineers to assess equipment needs and to determine system requirements.

Daily **82**

Prepare and deliver technical presentations that explain products or services to customers and prospective customers.

More than monthly **81**

Door-to-Door Sales Workers, News and Street Vendors, and Related Workers

41-9091.00



Description: Sell goods or services door-to-door or on the street.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Direct Sales Coach, Door-to-Door Sales Trainer

Job Zone

Title: 1 - Little or No Preparation Needed

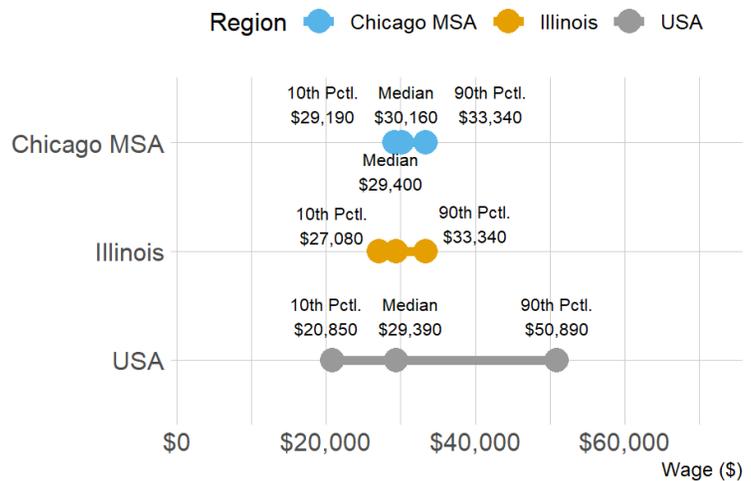
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Hot Technologies: Facebook, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | – | – | \$30,160 |
| Illinois | – | – | \$29,400 |
| USA | 7,860 | – | \$29,390 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
|---|-----------|-------------------------|

| | | |
|---|------------------|----|
| Explain products or services and prices and demonstrate use of products. | More than weekly | 94 |
| Develop prospect lists. | Daily | 88 |
| Deliver merchandise and collect payment. | More than weekly | 86 |
| Write and record orders for merchandise or enter orders into computers. | More than weekly | 86 |
| Arrange buying parties and solicit sponsorship of such parties to sell merchandise. | More than weekly | 84 |

Bookkeeping, Accounting, and Auditing Clerks

43-3031.00



Description: Compute, classify, and record numerical data to keep financial records complete.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Account Clerk, Accounting Assistant, Accounting Associate

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

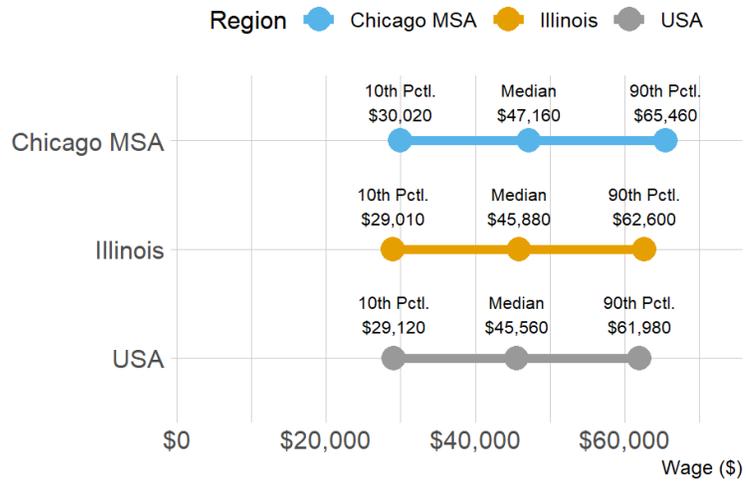
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Management Accountant, Certified Accounts Payable Associate, Certified Payroll Professional, Tax Certification, Bookkeepers Certification

Hot Technologies: AcornSystems Corporate Performance Management, Adobe Systems Adobe Acrobat, ADP Workforce Now, Advanced Management Systems Software for

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 43,300 | 0.95 | \$47,160 |
| Illinois | 61,470 | 1.02 | \$45,880 |
| USA | 1,509,370 | - | \$45,560 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|----------------|-------------------------|
| Operate computers programmed with accounting software to record, store, and analyze information. | Hourly or more | 95 |
| Check figures, postings, and documents for correct entry, mathematical accuracy, and proper codes. | Daily | 94 |
| Comply with federal, state, and company policies, procedures, and regulations. | Daily | 91 |
| Operate 10-key calculators, typewriters, and copy machines to perform calculations and produce documents. | Hourly or more | 89 |
| Receive, record, and bank cash, checks, and vouchers. | Daily | 89 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Payroll and Timekeeping Clerks

43-3051.00



Description: Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Accounting Technician, Human Resources Assistant (HR Assistant)

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

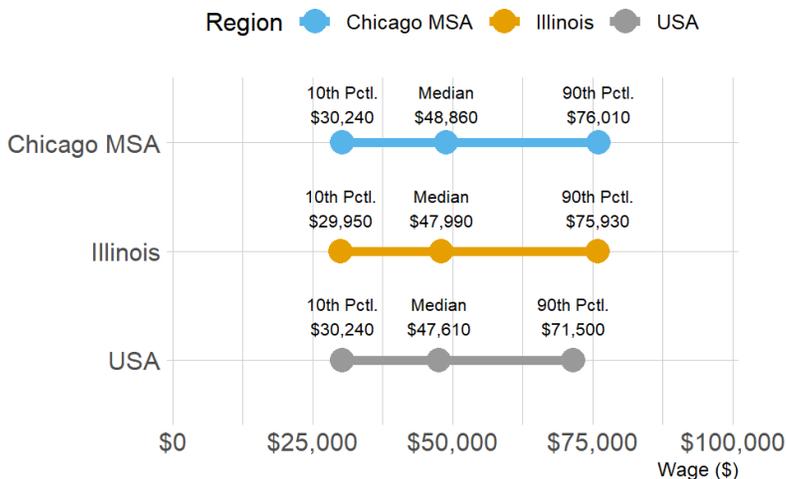
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Payroll Professional, Payroll Certification, Bookkeepers Certification

Hot Technologies: ADP Workforce Now, IBM Cognos Impromptu, IBM Notes, Intuit QuickBooks, Microsoft Access, Microsoft Dynamics, Microsoft Dynamics GP

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,440 | 0.77 | \$48,860 |
| Illinois | 4,500 | 0.76 | \$47,990 |
| USA | 149,290 | - | \$47,610 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|-------------------|----|
| Process and issue employee paychecks and statements of earnings and deductions. | More than monthly | 95 |
| Compute wages and deductions, and enter data into computers. | More than monthly | 95 |
| Review time sheets, work charts, wage computation, and other information to detect and reconcile payroll discrepancies. | More than monthly | 94 |
| Compile employee time, production, and payroll data from time sheets and other records. | More than monthly | 93 |
| Process paperwork for new employees and enter employee information into the payroll system. | More than monthly | 92 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Procurement Clerks

43-3061.00



Description: Compile information and records to draw up purchase orders for procurement of materials and services.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Buyer, Procurement Assistant, Procurement Officer

Job Zone

Title: 3 - Medium Preparation Needed

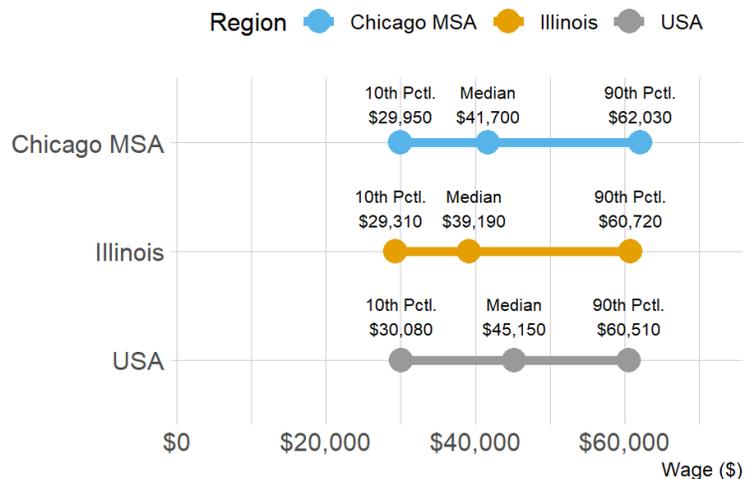
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autotask, Enterprise resource planning ERP software, IBM Maximo Asset Management, Intuit QuickBooks, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,690 | 1.44 | \$41,700 |
| Illinois | 3,710 | 1.50 | \$39,190 |
| USA | 61,930 | – | \$45,150 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Perform buying duties when necessary. | Hourly or more | 91 |
| Prepare purchase orders and send copies to suppliers and to departments originating requests. | Several times daily | 90 |
| Compare suppliers' bills with bids and purchase orders to verify accuracy. | Daily | 88 |
| Prepare, maintain, and review purchasing files, reports and price lists. | Daily | 87 |
| Compare prices, specifications, and delivery dates to determine the best bid among potential suppliers. | Daily | 86 |

Court, Municipal, and License Clerks

43-4031.00



Description: Perform clerical duties for courts of law, municipalities, or governmental licensing agencies and bureaus.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: City Clerk, Court Clerk, Deputy City Clerk

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

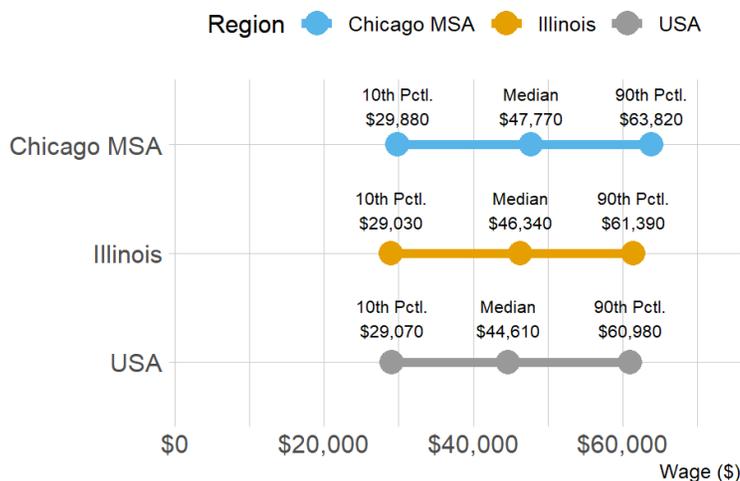
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Basic Court Security Certification

Hot Technologies: Adobe Systems Adobe Acrobat, IBM Notes, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,940 | 0.65 | \$47,770 |
| Illinois | 4,900 | 0.82 | \$46,340 |
| USA | 150,170 | - | \$44,610 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|-------------------|----|
| Evaluate information on applications to verify completeness and accuracy and to determine whether applicants are qualified to obtain desired licenses. | Hourly or more | 95 |
| Verify the authenticity of documents, such as foreign identification or immigration documents. | Hourly or more | 93 |
| Record and edit the minutes of meetings and distribute to appropriate officials or staff members. | More than monthly | 92 |
| Question applicants to obtain required information, such as name, address, or age, and record data on prescribed forms. | Hourly or more | 92 |
| Issue public notification of all official activities or meetings. | More than monthly | 92 |

Eligibility Interviewers, Government Programs

43-4061.00



Description: Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Business Employment Specialist, Case Manager, Eligibility Examiner

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

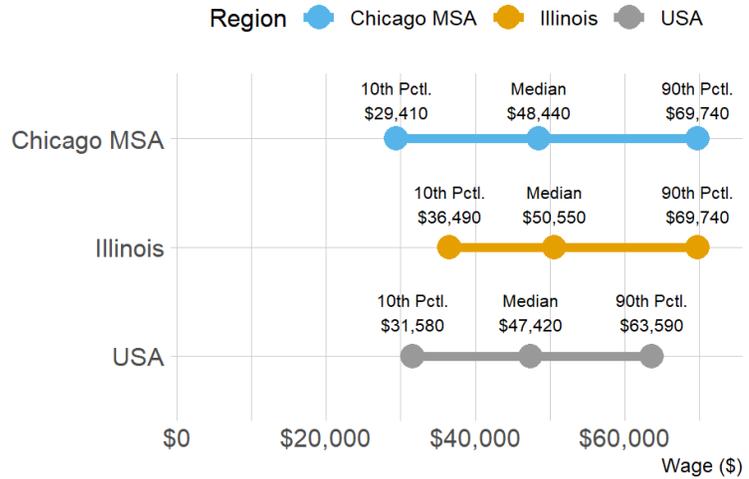
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Fair Housing Compliance

Hot Technologies: Microsoft Access, Microsoft Dynamics, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,440 | 0.32 | \$48,440 |
| Illinois | 1,700 | 0.28 | \$50,550 |
| USA | 151,340 | - | \$47,420 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|----------------|----|
| Interpret and explain information such as eligibility requirements, application details, payment methods, and applicants' legal rights. | Daily | 91 |
| Interview benefits recipients at specified intervals to certify their eligibility for continuing benefits. | Daily | 88 |
| Keep records of assigned cases, and prepare required reports. | Daily | 88 |
| Compile, record, and evaluate personal and financial data to verify completeness and accuracy, and to determine eligibility status. | Daily | 87 |
| Answer applicants' questions about benefits and claim procedures. | Hourly or more | 86 |

File Clerks

43-4071.00



Description: File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Claims Clerk, Clerk, Documentation Specialist

Job Zone

Title: 2 - Some Preparation Needed

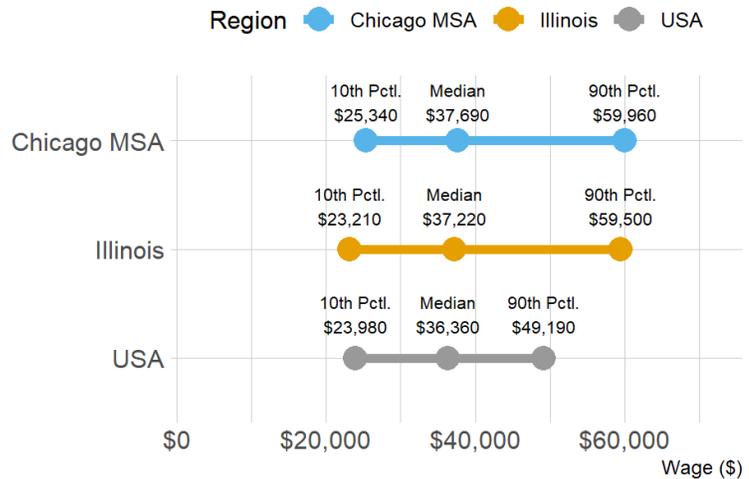
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Intuit QuickBooks, Microsoft Access, Microsoft Office Suite, Microsoft SharePoint

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,300 | 1.29 | \$37,690 |
| Illinois | 4,260 | 1.25 | \$37,220 |
| USA | 85,460 | - | \$36,360 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Scan or read incoming materials to determine how and where they should be classified or filed.

Daily 88

Input data, such as file numbers, new or updated information, or document information codes into computer systems to support document and information retrieval.

Daily 86

Perform general office activities, such as typing, answering telephones, operating office machines, processing mail, or securing confidential materials.

Daily 86

Sort or classify information according to guidelines, such as content, purpose, user criteria, or chronological, alphabetical, or numerical order.

Daily 83

Answer questions about records or files.

Daily 82



Human Resources Assistants, Except Payroll and Timekeeping

43-4161.00



Description: Compile and keep personnel records. Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Human Resources Administrative Assistant (HR Administrative Assistant)

Job Zone

Title: 3 - Medium Preparation Needed

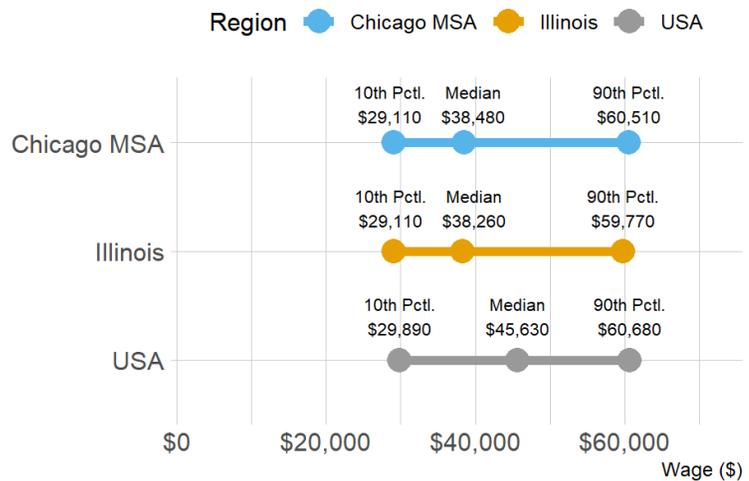
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: ADP Workforce Now, Database software, Enterprise resource planning ERP software, Google Docs, LinkedIn, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,880 | 0.93 | \$38,480 |
| Illinois | 4,020 | 0.98 | \$38,260 |
| USA | 102,770 | - | \$45,630 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|-------------------|----|
| Process, verify, and maintain personnel related documentation, including staffing, recruitment, training, grievances, performance evaluations, classifications, and employee leaves of absence. | Daily | 82 |
| Explain company personnel policies, benefits, and procedures to employees or job applicants. | Daily | 81 |
| Record data for each employee, including such information as addresses, weekly earnings, absences, amount of sales or production, supervisory reports on performance, and dates of and reasons for terminations. | More than weekly | 81 |
| Provide assistance in administering employee benefit programs and worker's compensation plans. | More than monthly | 78 |
| Answer questions regarding examinations, eligibility, salaries, benefits, and other pertinent information. | Daily | 76 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Dispatchers, Except Police, Fire, and Ambulance

43-5032.00



Description: Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aircraft Dispatcher, Charter Coordinator, City Dispatcher

Job Zone

Title: 2 - Some Preparation Needed

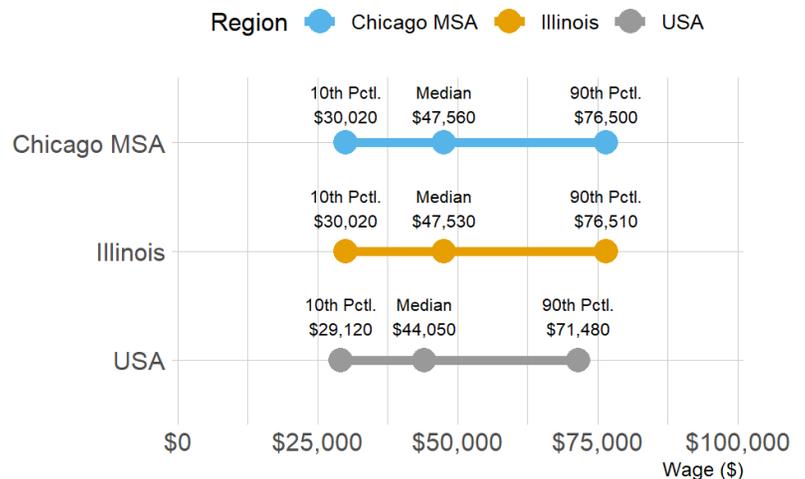
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Computer aided design CAD software, Database software, Microsoft Access, Microsoft Dynamics, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,190 | 1.06 | \$47,560 |
| Illinois | 7,860 | 1.01 | \$47,530 |
| USA | 194,330 | – | \$44,050 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Schedule or dispatch workers, work crews, equipment, or service vehicles to appropriate locations, according to customer requests, specifications, or needs, using radios or telephones.

Hourly or more

96

Confer with customers or supervising personnel to address questions, problems, or requests for service or equipment.

Hourly or more

93

Prepare daily work and run schedules.

Hourly or more

93

Relay work orders, messages, or information to or from work crews, supervisors, or field inspectors, using telephones or two-way radios.

Hourly or more

92

Receive or prepare work orders.

Daily

89

Meter Readers, Utilities

43-5041.00



Description: Read meter and record consumption of electricity, gas, water, or steam.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Field Technician, Fieldman, Meter Reader

Job Zone

Title: 2 - Some Preparation Needed

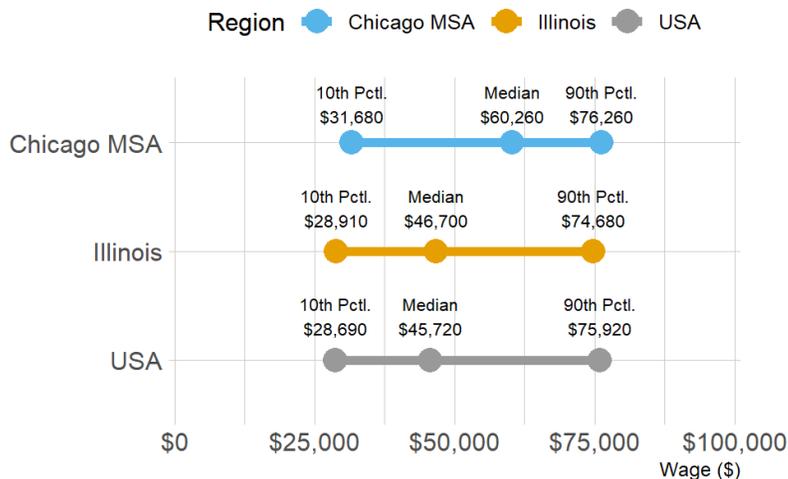
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Access, Microsoft Office Suite, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 870 | 1.21 | \$60,260 |
| Illinois | 1,790 | 1.87 | \$46,700 |
| USA | 24,000 | – | \$45,720 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Read electric, gas, water, or steam consumption meters and enter data in route books or hand-held computers.

Hourly or more

90

Upload into office computers all information collected on hand-held computers during meter rounds, or return route books or hand-held computers to business offices so that data can be compiled.

Daily

86

Walk or drive vehicles along established routes to take readings of meter dials.

Hourly or more

85

Verify readings in cases where consumption appears to be abnormal, and record possible reasons for fluctuations.

Daily

84

Inspect meters for unauthorized connections, defects, and damage, such as broken seals.

Daily

84

Production, Planning, and Expediting Clerks

43-5061.00



Description: Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Materials Coordinator, Materials Planner, Planner

Job Zone

Title: 3 - Medium Preparation Needed

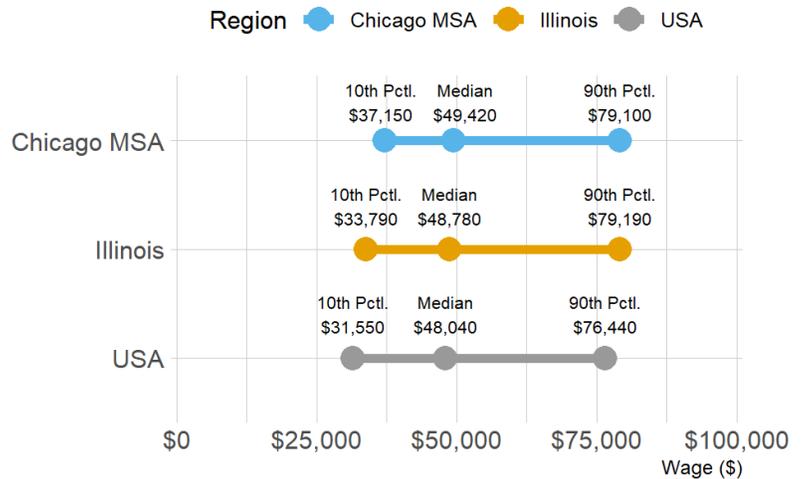
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop, Database software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,570 | 0.69 | \$49,420 |
| Illinois | 10,440 | 0.71 | \$48,780 |
| USA | 367,200 | - | \$48,040 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|-------|----|
| Distribute production schedules or work orders to departments. | Daily | 87 |
| Review documents, such as production schedules, work orders, or staffing tables, to determine personnel or materials requirements or material priorities. | Daily | 86 |
| Requisition and maintain inventories of materials or supplies necessary to meet production demands. | Daily | 86 |
| Arrange for delivery, assembly, or distribution of supplies or parts to expedite flow of materials and meet production schedules. | Daily | 83 |
| Confer with department supervisors or other personnel to assess progress and discuss needed changes. | Daily | 82 |



Weighers, Measurers, Checkers, and Samplers, Recordkeeping

43-5111.00



Description: Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Cycle Counter, Fluid Operator, Inventory Specialist

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

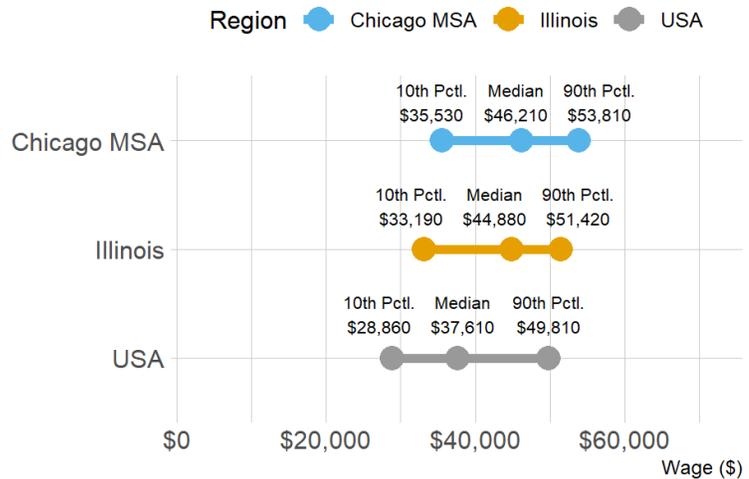
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Weighing Salespersons, Certified Weighing Technicians

Hot Technologies: Enterprise resource planning ERP software, IBM Notes, Infor ERP Baan, Infor XA, Microsoft Access, Microsoft Dynamics AX, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 940 | 0.57 | \$46,210 |
| Illinois | 1,220 | 0.56 | \$44,880 |
| USA | 54,760 | - | \$37,610 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|----------------|----|
| Document quantity, quality, type, weight, test result data, and value of materials or products to maintain shipping, receiving, and production records and files. | Hourly or more | 89 |
| Weigh or measure materials, equipment, or products to maintain relevant records, using volume meters, scales, rules, or calipers. | Hourly or more | 88 |
| Collect or prepare measurement, weight, or identification labels and attach them to products. | Daily | 87 |
| Examine products or materials, parts, subassemblies, and packaging for damage, defects, or shortages, using specification sheets, gauges, and standards charts. | Daily | 85 |
| Signal or instruct other workers to weigh, move, or check products. | Daily | 81 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Executive Secretaries and Executive Administrative Assistants

43-6011.00



Description: Provide high-level administrative support by conducting research, preparing statistical reports, and handling information requests.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Administrative Aide, Administrative Assistant, Administrative Associate

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

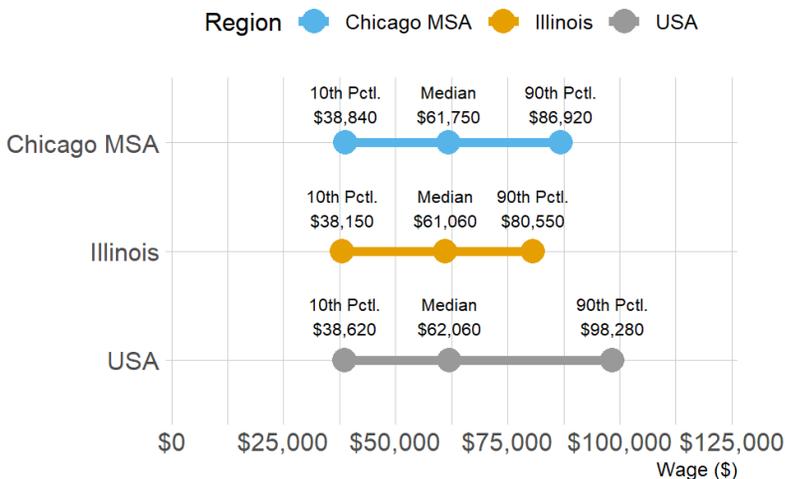
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Registered Parliamentarian, Professional Administrative Certification of Excellence, Certified Parliamentarian

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop, Apple macOS

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 15,510 | 1.11 | \$61,750 |
| Illinois | 21,730 | 1.17 | \$61,060 |
| USA | 466,910 | – | \$62,060 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|------------------|-------------------------|
| Manage and maintain executives' schedules. | Daily | 88 |
| Make travel arrangements for executives. | More than yearly | 85 |
| Prepare invoices, reports, memos, letters, financial statements, and other documents, using word processing, spreadsheet, database, or presentation software. | Daily | 83 |
| Coordinate and direct office services, such as records, departmental finances, budget preparation, personnel issues, and housekeeping, to aid executives. | Daily | 82 |
| Answer phone calls and direct calls to appropriate parties or take messages. | Hourly or more | 81 |

Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

43-6014.00



Description: Perform routine administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Administrative Assistant (Admin Assistant), Administrative Clerk

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

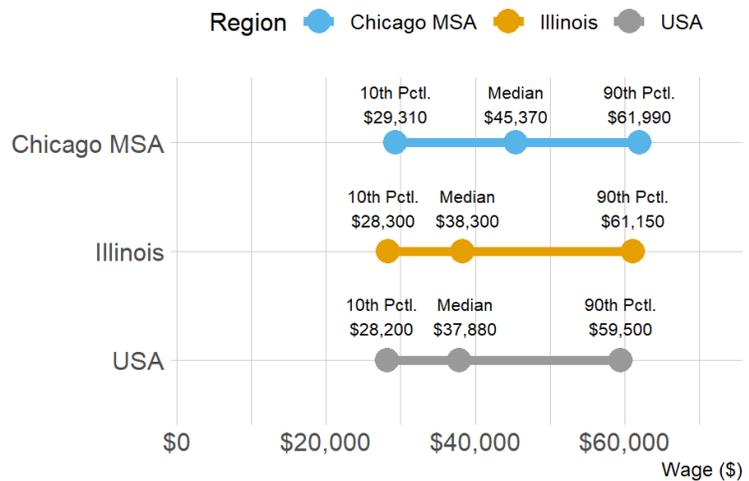
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Associate in Project Management

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Creative Cloud, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 45,760 | 0.83 | \$45,370 |
| Illinois | 63,340 | 0.87 | \$38,300 |
| USA | 1,825,980 | - | \$37,880 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|----------------|----|
| Answer telephones and give information to callers, take messages, or transfer calls to appropriate individuals. | Daily | 87 |
| Greet visitors or callers and handle their inquiries or direct them to the appropriate persons according to their needs. | Daily | 86 |
| Use computers for various applications, such as database management or word processing. | Hourly or more | 84 |
| Create, maintain, and enter information into databases. | Daily | 84 |
| Operate office equipment, such as fax machines, copiers, or phone systems and arrange for repairs when equipment malfunctions. | Daily | 81 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Word Processors and Typists

43-9022.00



Description: Use word processor, computer, or typewriter to type letters, reports, forms, or other material from rough draft, corrected copy, or voice recording. May perform other clerical duties as assigned.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Clerk Specialist, Clerk Typist, Keyboard Specialist

Job Zone

Title: 2 - Some Preparation Needed

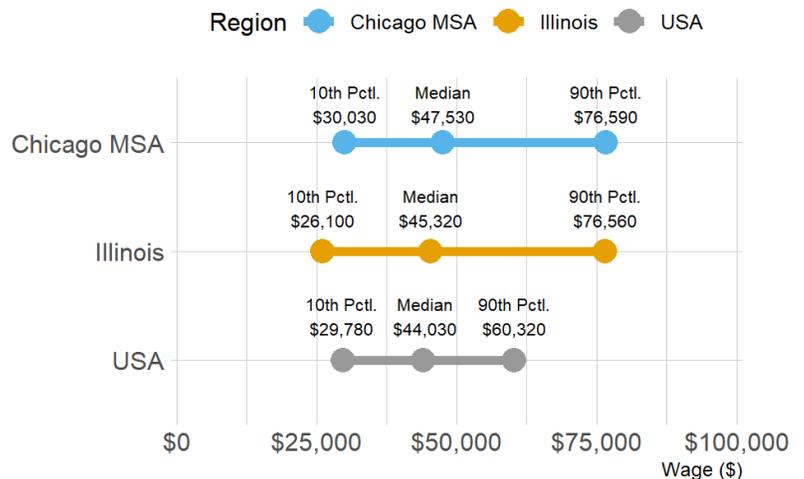
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, IBM Notes, Intuit QuickBooks, Microsoft Access, Microsoft Office Suite, Microsoft SharePoint, Oracle PeopleSoft

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 330 | 0.26 | \$47,530 |
| Illinois | 460 | 0.27 | \$45,320 |
| USA | 41,930 | – | \$44,030 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Perform other clerical duties, such as answering telephone, sorting and distributing mail, running errands or sending faxes.

Hourly or more

88

Check completed work for spelling, grammar, punctuation, and format.

Daily

86

File and store completed documents on computer hard drive or disk, or maintain a computer filing system to store, retrieve, update, and delete documents.

Daily

84

Print and make copies of work.

Daily

83

Transmit work electronically to other locations.

Daily

82

Mail Clerks and Mail Machine Operators, Except Postal Service 43-9051.00



Description: Prepare incoming and outgoing mail for distribution. Time-stamp, open, read, sort, and route incoming mail; and address, seal, stamp, fold, stuff, and affix postage to outgoing mail or packages.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Insert Operator, Inserter Operator, Mail Clerk

Job Zone

Title: 2 - Some Preparation Needed

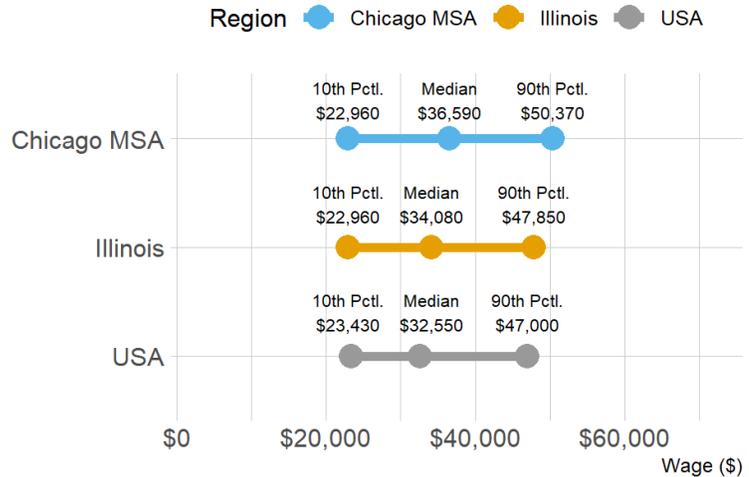
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,630 | 0.78 | \$36,590 |
| Illinois | 2,000 | 0.72 | \$34,080 |
| USA | 69,400 | - | \$32,550 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------|----|
| Wrap packages or bundles by hand, or by using tying machines. | Daily | 89 |
| Verify that items are addressed correctly, marked with the proper postage, and in suitable condition for processing. | Daily | 86 |
| Remove containers of sorted mail or parcels and transfer them to designated areas according to established procedures. | Daily | 85 |
| Sort and route incoming mail, and collect outgoing mail, using carts as necessary. | Daily | 84 |
| Affix postage to packages or letters by hand, or stamp materials, using postage meters. | Daily | 83 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Office Clerks, General 43-9061.00



Description: Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring knowledge of office systems and procedures.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Administrative Clerk (Admin Clerk), Clerical Aide, Clerical Assistant

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

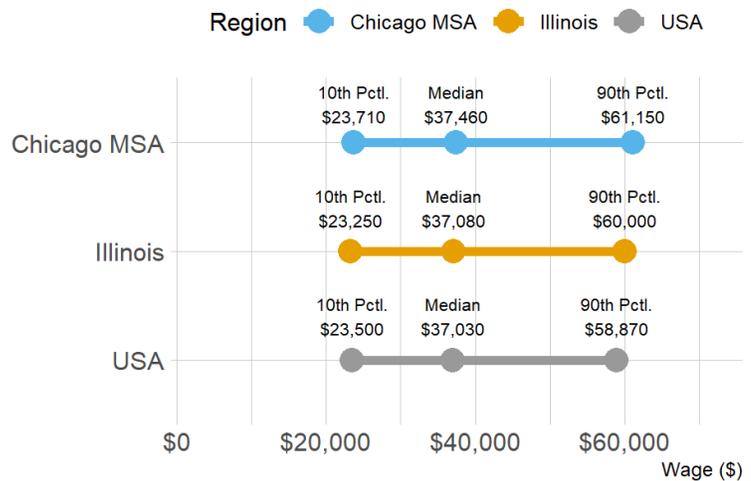
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Nationally Certified Medical Office Assistant

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe InDesign, ADP Workforce Now, Database software, Facebook, Google Docs, Google Drive

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 104,770 | 1.35 | \$37,460 |
| Illinois | 146,190 | 1.42 | \$37,080 |
| USA | 2,578,180 | – | \$37,030 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Operate office machines, such as photocopiers and scanners, facsimile machines, voice mail systems, and personal computers.

Hourly or more

91

Answer telephones, direct calls, and take messages.

Hourly or more

87

Communicate with customers, employees, and other individuals to answer questions, disseminate or explain information, take orders, and address complaints.

Daily

86

Maintain and update filing, inventory, mailing, and database systems, either manually or using a computer.

Daily

81

Compile, copy, sort, and file records of office activities, business transactions, and other activities.

Daily

80

Statistical Assistants

43-9111.00



Description: Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Actuarial Analyst, Actuarial Assistant, Actuarial Technician

Job Zone

Title: 4 - Considerable Preparation Needed

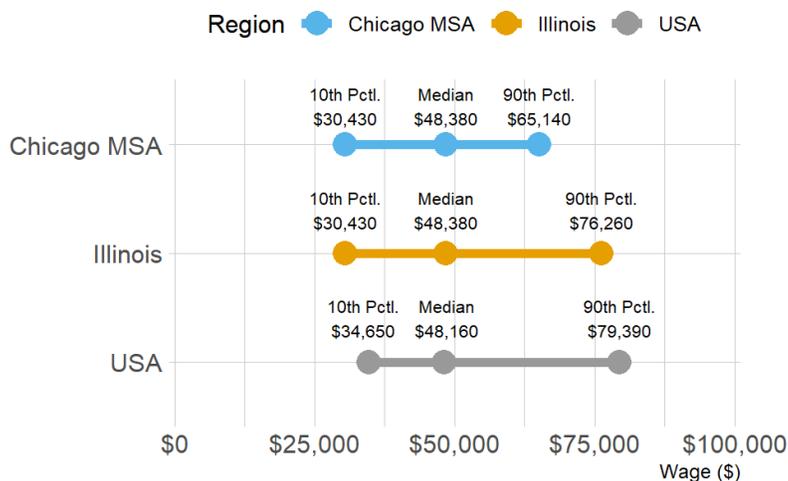
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Bentley MicroStation, C#, C++, Database software, IBM SPSS Statistics, Microsoft Access, Microsoft Active Server Pages ASP, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 140 | 0.75 | \$48,380 |
| Illinois | 180 | 0.73 | \$48,380 |
| USA | 6,190 | – | \$48,160 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Compute and analyze data, using statistical formulas and computers or calculators. | Daily | 90 |
| Check source data to verify completeness and accuracy. | Daily | 88 |
| Enter data into computers for use in analyses or reports. | Daily | 87 |
| Compile reports, charts, or graphs that describe and interpret findings of analyses. | More than weekly | 87 |
| Participate in the publication of data or information. | More than monthly | 85 |

First-Line Supervisors of Farming, Fishing, and Forestry Workers

45-1011.00



Description: Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Cattle Manager, Field Operations Farm Manager, Fish Farm Manager

Job Zone

Title: 3 - Medium Preparation Needed

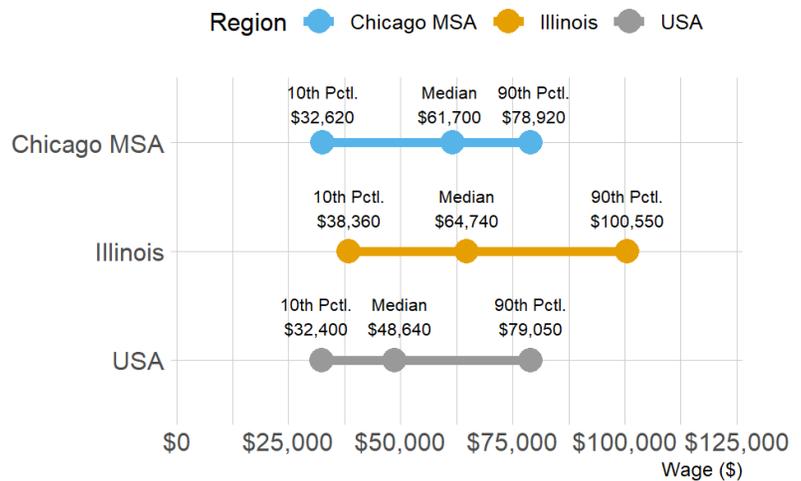
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Confluence, Database software, Enterprise resource planning ERP software, Microsoft Office Suite, Midwest MicroSystems Cow Sense

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 100 | 0.13 | \$61,700 |
| Illinois | 190 | 0.18 | \$64,740 |
| USA | 25,770 | - | \$48,640 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|------------------|----|
| Assign tasks such as feeding and treatment of animals, and cleaning and maintenance of animal quarters. | Daily | 90 |
| Record the numbers and types of fish or shellfish reared, harvested, released, sold, and shipped. | More than weekly | 89 |
| Monitor workers to ensure that safety regulations are followed, warning or disciplining those who violate safety regulations. | Daily | 89 |
| Observe animals for signs of illness, injury, or unusual behavior, notifying veterinarians or managers as warranted. | Daily | 88 |
| Observe fish and beds or ponds to detect diseases, monitor fish growth, determine quality of fish, or determine completeness of harvesting. | Daily | 86 |



Agricultural Inspectors

45-2011.00



Description: Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Brand Inspector, Consumer Safety Inspector (CSI), Food Inspector

Job Zone

Title: 2 - Some Preparation Needed

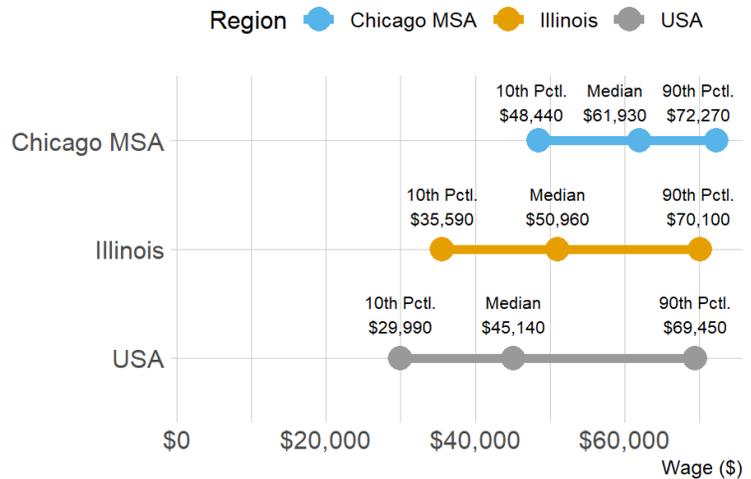
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 70 | 0.17 | \$61,930 |
| Illinois | 260 | 0.48 | \$50,960 |
| USA | 13,630 | - | \$45,140 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Inspect food products and processing procedures to determine whether products are safe to eat.

Daily 92

Interpret and enforce government acts and regulations and explain required standards to agricultural workers.

Daily 88



Forest and Conservation Workers

45-4011.00



Description: Under supervision, perform manual labor necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Conservation Officer, Field Laborer, Forest Resource Specialist

Job Zone

Title: 3 - Medium Preparation Needed

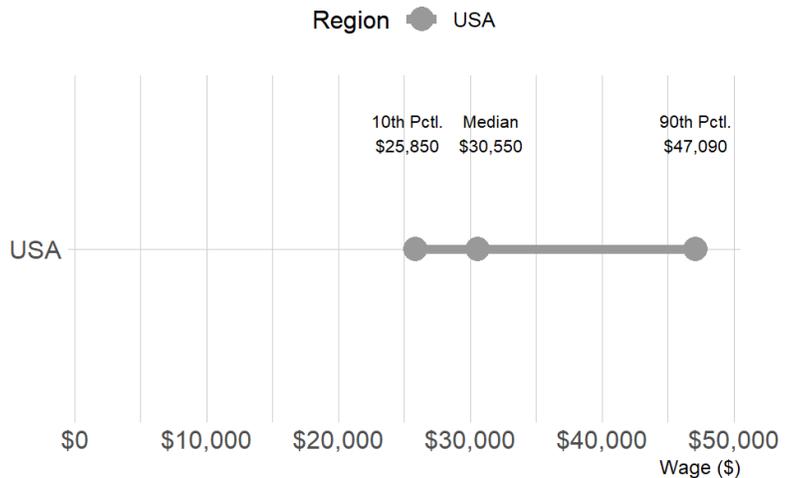
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Database software, ESRI ArcGIS software, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 6,300 | - | \$30,550 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Check equipment to ensure that it is operating properly. | Daily | 79 |
| Confer with other workers to discuss issues, such as safety, cutting heights, or work needs. | More than weekly | 70 |

First-Line Supervisors of Construction Trades and Extraction Workers

47-1011.00



Description: Directly supervise and coordinate activities of construction or extraction workers.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Coal Mine Production Foreman, Construction Foreman, Construction Supervisor

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

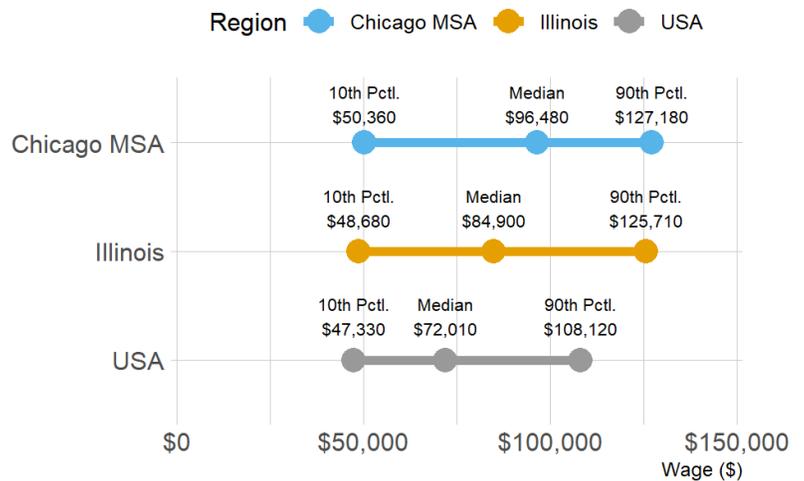
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Supervisor Certification, Construction Superintendant Certification, Construction Site Safety Orientation

Hot Technologies: Adobe Systems Adobe Acrobat, Autodesk AutoCAD, Microsoft Office Suite, Oracle Primavera Enterprise Project Portfolio Management

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 10,240 | 0.51 | \$96,480 |
| Illinois | 13,340 | 0.50 | \$84,900 |
| USA | 665,870 | – | \$72,010 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|---------------------|-------------------------|
| Inspect work progress, equipment, or construction sites to verify safety or to ensure that specifications are met. | Daily | 90 |
| Read specifications, such as blueprints, to determine construction requirements or to plan procedures. | Daily | 87 |
| Supervise, coordinate, or schedule the activities of construction or extractive workers. | Daily | 87 |
| Assign work to employees, based on material or worker requirements of specific jobs. | Several times daily | 84 |
| Estimate material or worker requirements to complete jobs. | Daily | 83 |

Boilermakers

47-2011.00



Description: Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Boiler Maker, Boiler Mechanic, Boiler Repairman

Job Zone

Title: 3 - Medium Preparation Needed

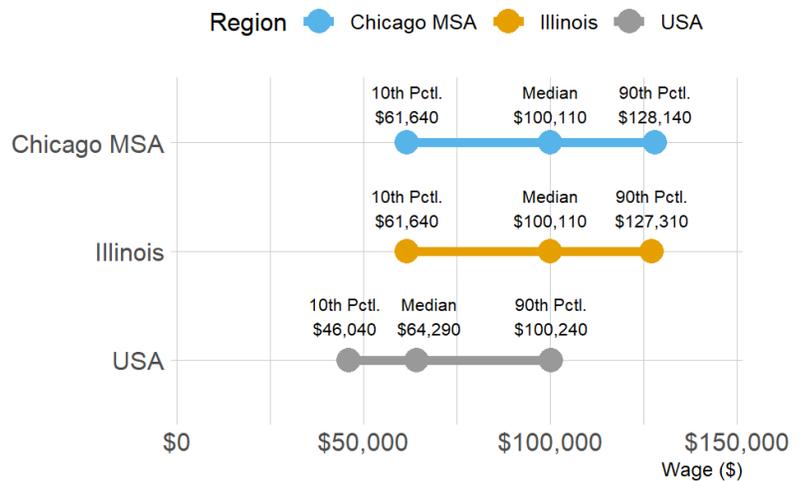
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Computer aided design CAD software, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 190 | 0.49 | \$100,110 |
| Illinois | 220 | 0.43 | \$100,110 |
| USA | 12,920 | - | \$64,290 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|------------------|----|
| Attach rigging and signal crane or hoist operators to lift heavy frame and plate sections or other parts into place. | More than weekly | 86 |
| Study blueprints to determine locations, relationships, or dimensions of parts. | Daily | 85 |
| Repair or replace defective pressure vessel parts, such as safety valves or regulators, using torches, jacks, caulking hammers, power saws, threading dies, welding equipment, or metalworking machinery. | Daily | 82 |
| Locate and mark reference points for columns or plates on boiler foundations, following blueprints and using straightedges, squares, transits, or measuring instruments. | Daily | 82 |
| Bolt or arc weld pressure vessel structures and parts together, using wrenches or welding equipment. | Daily | 80 |

Brickmasons and Blockmasons

47-2021.00



Description: Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances, to construct or repair walls, partitions.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Block Layer, Block Mason, Blockmason

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

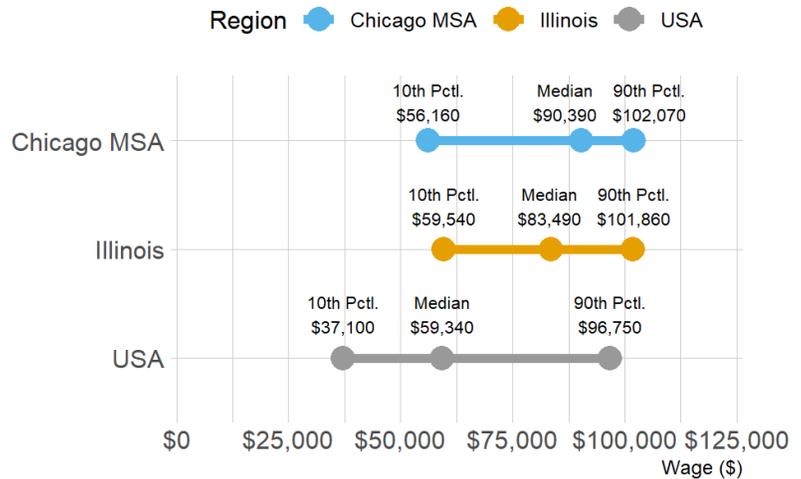
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Supervisor Certification

Hot Technologies: Intuit QuickBooks, Microsoft Office Suite, RISA Technologies RISA-3D

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,760 | 1.64 | \$90,390 |
| Illinois | 3,500 | 1.57 | \$83,490 |
| USA | 55,950 | - | \$59,340 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Measure distance from reference points and mark guidelines to lay out work, using plumb bobs and levels. | Hourly or more | 94 |
| Construct corners by fastening in plumb position a corner pole or building a corner pyramid of bricks, and filling in between the corners using a line from corner to corner to guide each course, or layer, of brick. | Daily | 91 |
| Apply and smooth mortar or other mixture over work surface. | Hourly or more | 89 |
| Calculate angles and courses and determine vertical and horizontal alignment of courses. | Daily | 87 |
| Break or cut bricks, tiles, or blocks to size, using trowel edge, hammer, or power saw. | Daily | 86 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Stonemasons

47-2022.00



Description: Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Mason, Stone Derrickman, Stone Mason

Job Zone

Title: 3 - Medium Preparation Needed

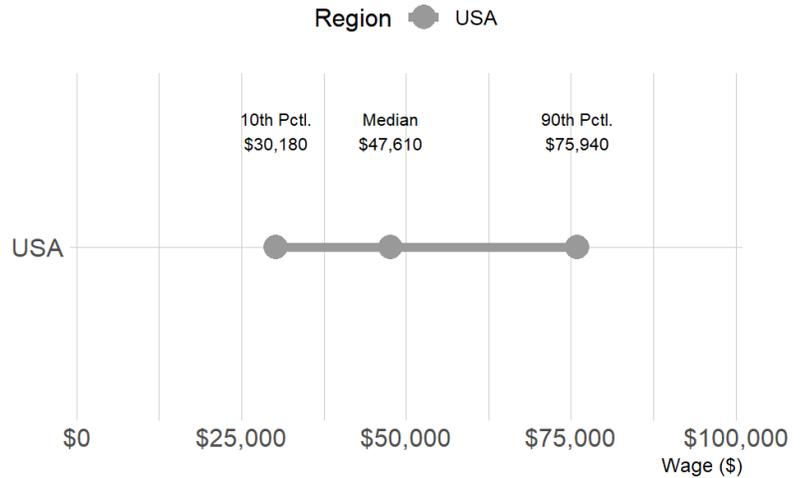
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Intuit QuickBooks, Microsoft Active Server Pages ASP, Microsoft Office Suite, RISA Technologies RISA-3D

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 9,000 | - | \$47,610 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|------------------|-------------------------|
| Lay out wall patterns or foundations, using straight edge, rule, or staked lines. | Daily | 91 |
| Shape, trim, face and cut marble or stone preparatory to setting, using power saws, cutting equipment, and hand tools. | Hourly or more | 90 |
| Set vertical and horizontal alignment of structures, using plumb bob, gauge line, and level. | More than yearly | 89 |
| Mix mortar or grout and pour or spread mortar or grout on marble slabs, stone, or foundation. | Hourly or more | 88 |
| Remove wedges, fill joints between stones, finish joints between stones, using a trowel, and smooth the mortar to an attractive finish, using a tuck pointer. | Daily | 85 |

Carpenters

47-2031.00



Description: Construct, erect, install, or repair structures and fixtures made of wood and comparable materials, such as concrete forms; building frameworks, including partitions, joists, studding.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Assembler, Bridge Carpenter, Bridge Repair Crew Person

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

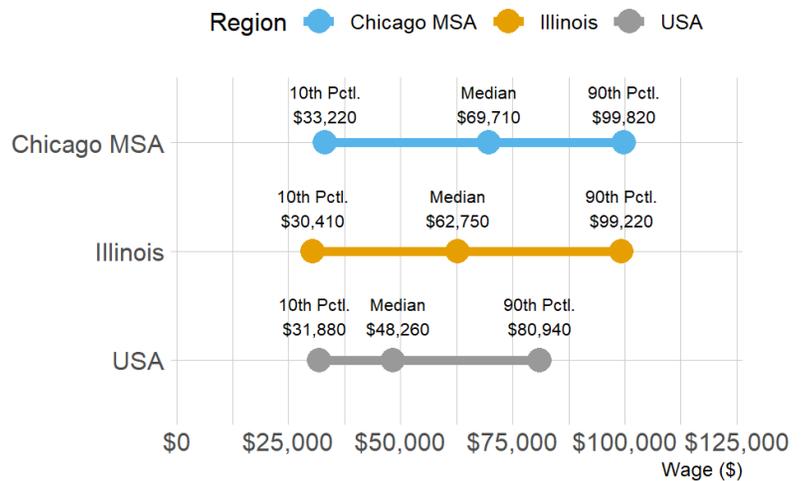
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Door + Hardware Industry Associate - Level I, Certified Lead Carpenter, Certified Graduate Associate, Certified Installer and Sand & Finisher

Hot Technologies: Drawing and drafting software, Intuit QuickBooks, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 16,550 | 0.82 | \$69,710 |
| Illinois | 22,840 | 0.86 | \$62,750 |
| USA | 668,060 | - | \$48,260 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Follow established safety rules and regulations and maintain a safe and clean environment.

Hourly or more

90

Study specifications in blueprints, sketches, or building plans to prepare project layout and determine dimensions and materials required.

Daily

89

Measure and mark cutting lines on materials, using a ruler, pencil, chalk, and marking gauge.

Hourly or more

88

Shape or cut materials to specified measurements, using hand tools, machines, or power saws.

Hourly or more

87

Install structures or fixtures, such as windows, frames, floorings, trim, or hardware, using carpenters' hand or power tools.

Hourly or more

87

Carpet Installers

47-2041.00



Description: Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Carpet Installer, Carpet Layer, Carpet Mechanic

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

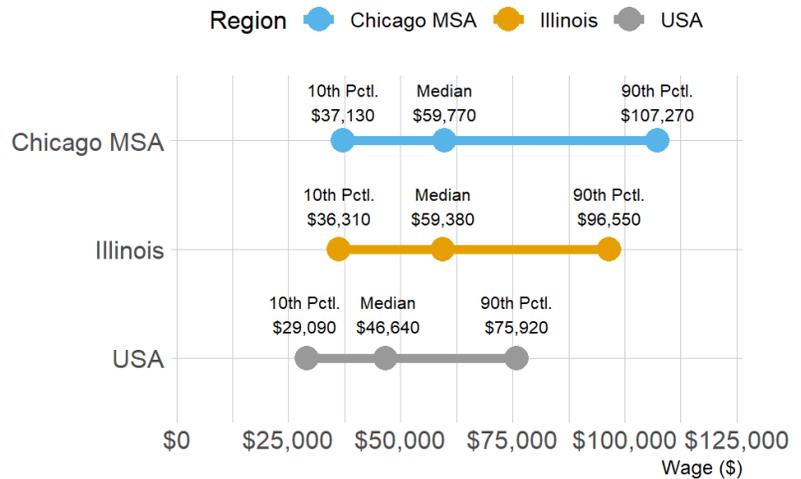
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Commercial Carpet Installer, Residential Resilient Flooring, Certified Residential Carpet Installer

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 570 | 0.96 | \$59,770 |
| Illinois | 810 | 1.03 | \$59,380 |
| USA | 19,790 | - | \$46,640 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
| Join edges of carpet and seam edges where necessary, by sewing or by using tape with glue and heated carpet iron. | Daily | 91 |
| Inspect the surface to be covered to determine its condition, and correct any imperfections that might show through carpet or cause carpet to wear unevenly. | Daily | 91 |
| Roll out, measure, mark, and cut carpeting to size with a carpet knife, following floor sketches and allowing extra carpet for final fitting. | Daily | 91 |
| Cut and trim carpet to fit along wall edges, openings, and projections, finishing the edges with a wall trimmer. | Daily | 90 |
| Plan the layout of the carpet, allowing for expected traffic patterns and placing seams for best appearance and longest wear. | Daily | 88 |

Join edges of carpet and seam edges where necessary, by sewing or by using tape with glue and heated carpet iron. Daily 91

Inspect the surface to be covered to determine its condition, and correct any imperfections that might show through carpet or cause carpet to wear unevenly. Daily 91

Roll out, measure, mark, and cut carpeting to size with a carpet knife, following floor sketches and allowing extra carpet for final fitting. Daily 91

Cut and trim carpet to fit along wall edges, openings, and projections, finishing the edges with a wall trimmer. Daily 90

Plan the layout of the carpet, allowing for expected traffic patterns and placing seams for best appearance and longest wear. Daily 88

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Floor Layers, Except Carpet, Wood, and Hard Tiles

47-2042.00



Description: Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Floor Covering Contractor, Floor Coverings Installer, Floor Layer

Job Zone

Title: 2 - Some Preparation Needed

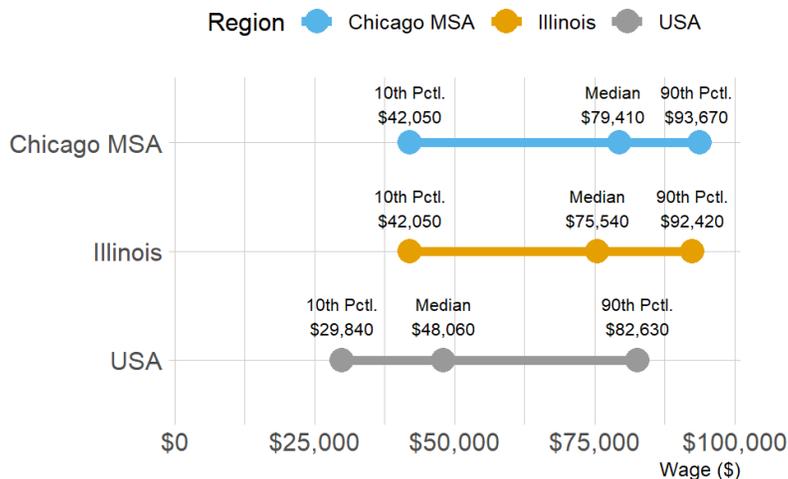
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Facebook, Microsoft Office Suite, Project visualization software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 380 | 0.69 | \$79,410 |
| Illinois | 570 | 0.78 | \$75,540 |
| USA | 18,300 | - | \$48,060 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Sweep, scrape, sand, or chip dirt and irregularities to clean base surfaces, correcting imperfections that may show through the covering.

More than weekly **85**

Cut flooring material to fit around obstructions.

Daily **84**

Inspect surface to be covered to ensure that it is firm and dry.

Daily **83**

Trim excess covering materials, tack edges, and join sections of covering material to form tight joint.

Daily **82**

Form a smooth foundation by stapling plywood or Masonite over the floor or by brushing waterproof compound onto surface and filling cracks with plaster, putty, or grout to seal pores.

More than weekly **81**

Floor Sanders and Finishers

47-2043.00



Description: Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Finisher, Floor Finisher, Floor Mechanic

Job Zone

Title: 1 - Little or No Preparation Needed

Education: May require a high school diploma or GED certificate.

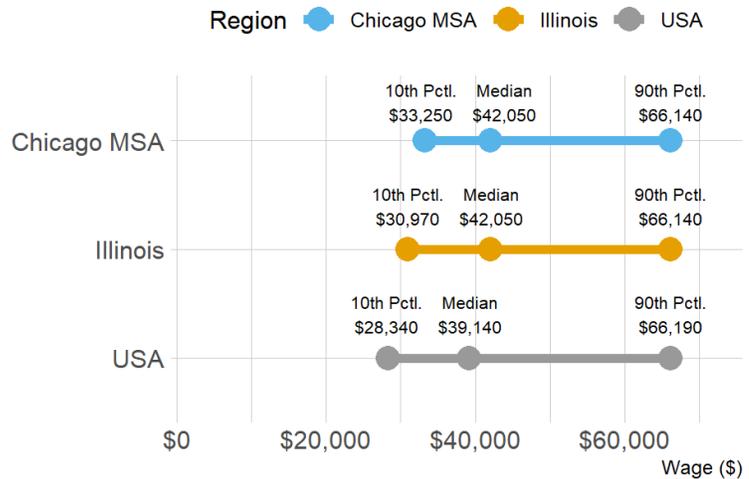
Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Core Certifications: Certified Installer and Sand & Finisher

Hot Technologies: Computer aided design CAD software, Floor planning software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$42,050 |
| Illinois | 120 | 0.68 | \$42,050 |
| USA | 4,340 | - | \$39,140 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
| Buff and vacuum floors to ensure their cleanliness prior to the application of finish. | Daily | 92 |
| Inspect floors for smoothness. | Daily | 90 |
| Scrape and sand floor edges and areas inaccessible to floor sanders, using scrapers, disk-type sanders, and sandpaper. | Daily | 90 |
| Guide sanding machines over surfaces of floors until surfaces are smooth. | Daily | 90 |
| Attach sandpaper to rollers of sanding machines. | Daily | 90 |

Tile and Stone Setters

47-2044.00



Description: Apply hard tile, stone, and comparable materials to walls, floors, ceilings, countertops, and roof decks.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Ceramic Tile Mechanic, Ceramic Tile Setter, Marble Mason

Job Zone

Title: 2 - Some Preparation Needed

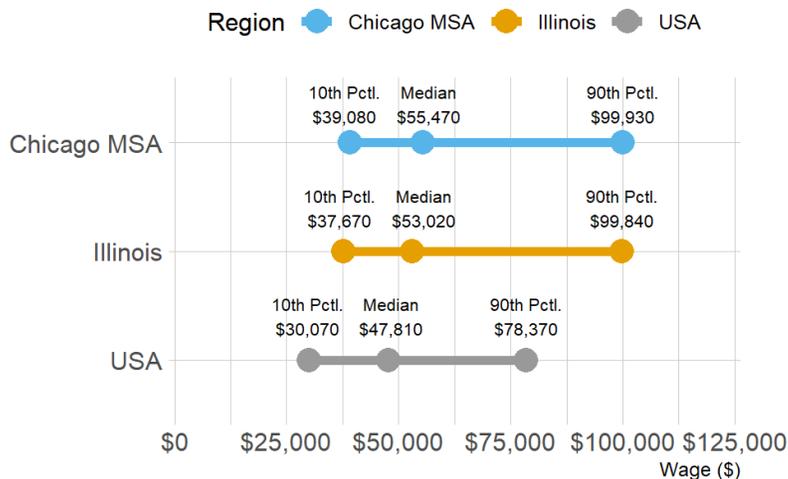
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: EasyCAD Iris 2D, Microsoft Office Suite, Salesforce software, TileGem

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 670 | 0.54 | \$55,470 |
| Illinois | 890 | 0.54 | \$53,020 |
| USA | 41,160 | – | \$47,810 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Cut and shape tile to fit around obstacles and into odd spaces and corners, using hand and power cutting tools.

Daily

93

Align and straighten tile using levels, squares, and straightedges.

Daily

88

Lay and set mosaic tiles to create decorative wall, mural, and floor designs.

Daily

88

Determine and implement the best layout to achieve a desired pattern.

Daily

86

Finish and dress the joints and wipe excess grout from between tiles, using damp sponge.

Daily

85

Cement Masons and Concrete Finishers

47-2051.00



Description: Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Cement Finisher, Cement Mason, Concrete Finisher

Job Zone

Title: 1 - Little or No Preparation Needed

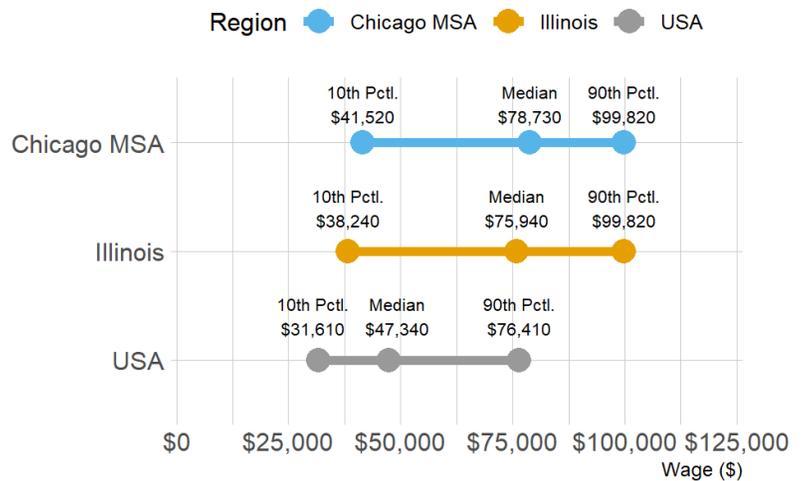
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Core Certifications: Specialty Commercial/Industrial Flatwork Finisher and Technician, Certified Concrete Surface Repair Technician, Masonry Certification

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 4,780 | 0.85 | \$78,730 |
| Illinois | 6,430 | 0.86 | \$75,940 |
| USA | 186,600 | - | \$47,340 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------|----|
| Check the forms that hold the concrete to see that they are properly constructed. | Daily | 84 |
| Set the forms that hold concrete to the desired pitch and depth, and align them. | Daily | 83 |
| Spread, level, and smooth concrete, using rake, shovel, hand or power trowel, hand or power screed, and float. | Daily | 81 |
| Monitor how the wind, heat, or cold affect the curing of the concrete throughout the entire process. | Daily | 80 |
| Mold expansion joints and edges, using edging tools, jointers, and straightedge. | Daily | 78 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Terrazzo Workers and Finishers

47-2053.00



Description: Apply a mixture of cement, sand, pigment, or marble chips to floors, stairways, and cabinet fixtures to fashion durable and decorative surfaces.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Grinder, Installer, Terrazzo Finisher

Job Zone

Title: 2 - Some Preparation Needed

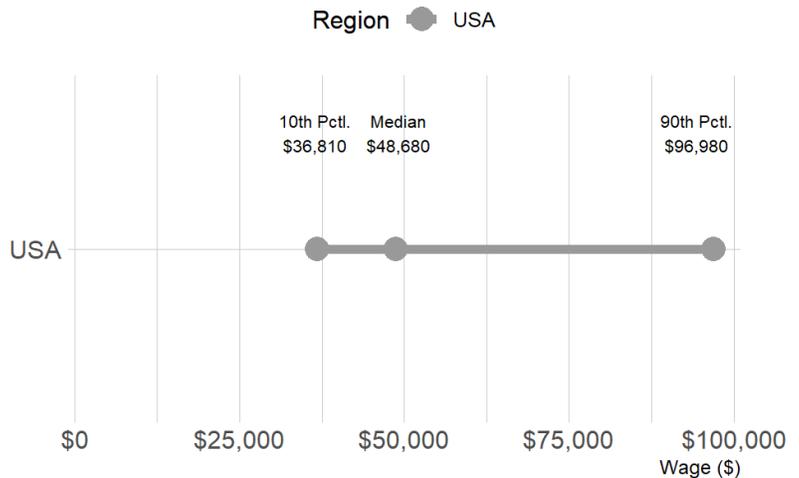
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Intuit QuickBooks, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 2,640 | - | \$48,680 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
|--|-----------|-------------------------|

| | | |
|--|---------------------|----|
| Measure designated amounts of ingredients for terrazzo or grout, according to standard formulas and specifications, using graduated containers and scales, and load ingredients into portable mixer. | Several times daily | 92 |
| Grind surfaces with a power grinder, or polish surfaces with polishing or surfacing machines. | Daily | 89 |
| Cut metal division strips and press them into the terrazzo base for joints or changes of color to form designs or patterns or to help prevent cracks. | More than weekly | 88 |
| Blend marble chip mixtures, place into panels, and push a roller over the surface to embed the chips. | Daily | 86 |
| Modify mixing, grouting, grinding, or cleaning procedures, according to type of installation or material used. | Daily | 86 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Construction Laborers

47-2061.00



Description: Perform tasks involving physical labor at construction sites.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Bituminous Asphalt Technician, Construction Laborer, Construction Worker

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

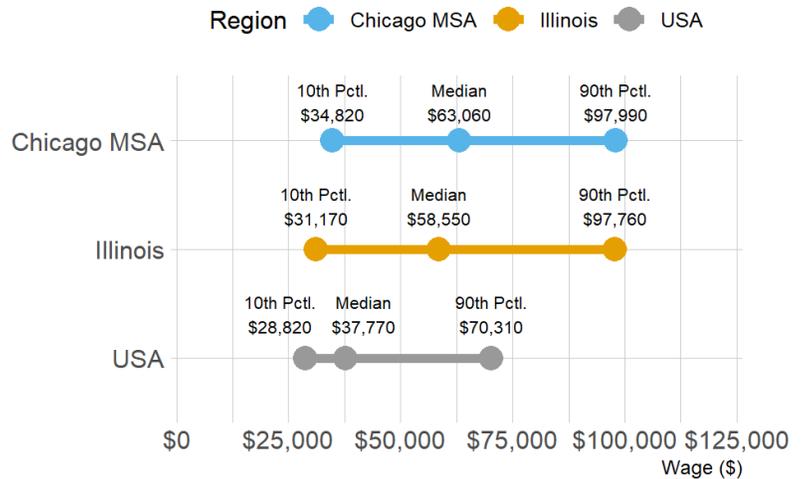
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Concrete Surface Repair Technician, Certified Graduate Associate, Rigger Level I, Signalperson, LEED Green Associate

Hot Technologies: Autodesk Revit, Microsoft Office Suite, Oracle Primavera Enterprise Project Portfolio Management

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 20,550 | 0.71 | \$63,060 |
| Illinois | 28,090 | 0.73 | \$58,550 |
| USA | 968,760 | - | \$37,770 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|------------------|-------------------------|
| Tend pumps, compressors, or generators to provide power for tools, machinery, or equipment or to heat or move materials, such as asphalt. | Hourly or more | 87 |
| Signal equipment operators to facilitate alignment, movement, or adjustment of machinery, equipment, or materials. | Daily | 84 |
| Lubricate, clean, or repair machinery, equipment, or tools. | More than weekly | 84 |
| Read plans, instructions, or specifications to determine work activities. | Daily | 78 |
| Measure, mark, or record openings or distances to layout areas where construction work will be performed. | Daily | 78 |

Paving, Surfacing, and Tamping Equipment

Operators

47-2071.00



Description: Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways or for tamping gravel, dirt, or other materials.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Asphalt Paver Operator, Asphalt Paving Machine Operator, Asphalt Raker

Job Zone

Title: 2 - Some Preparation Needed

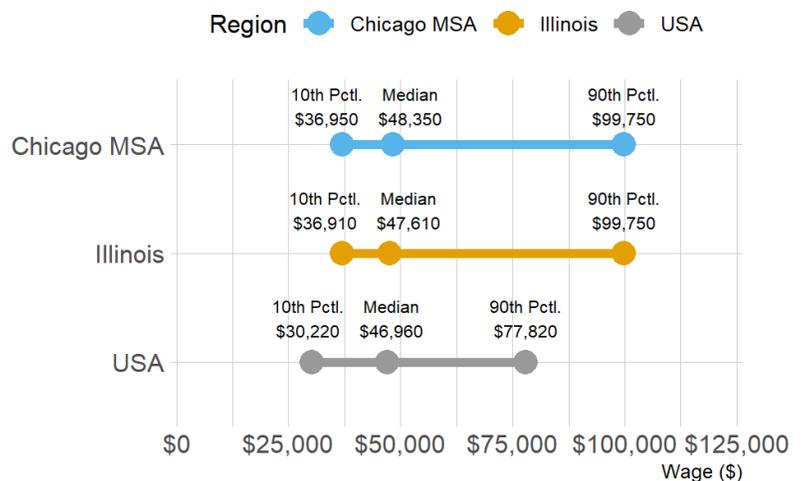
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD Civil 3D, Database software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,060 | 1.55 | \$48,350 |
| Illinois | 2,590 | 1.47 | \$47,610 |
| USA | 44,200 | – | \$46,960 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Start machine, engage clutch, and push and move levers to guide machine along forms or guidelines and to control the operation of machine attachments.

Hourly or more

83

Fill tanks, hoppers, or machines with paving materials.

Hourly or more

81

Observe distribution of paving material to adjust machine settings or material flow, and indicate low spots for workers to add material.

Daily

80

Control paving machines to push dump trucks and to maintain a constant flow of asphalt or other material into hoppers or screeds.

Hourly or more

80

Coordinate truck dumping.

Hourly or more

78

Pile Driver Operators

47-2072.00



Description: Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures such as buildings, bridges, and piers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Pile Driver, Pile Driver Operator, Pile Driving Operator

Job Zone

Title: 2 - Some Preparation Needed

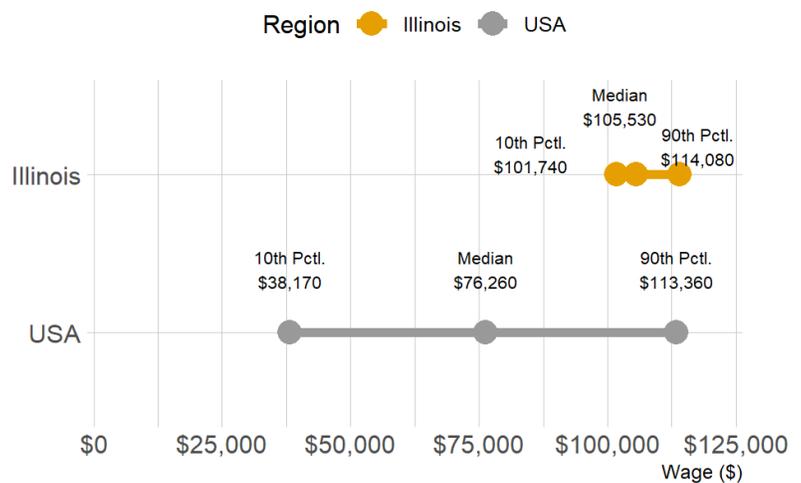
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | – | – | \$105,530 |
| USA | 3,760 | – | \$76,260 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|----------------|-------------------------|
| Move hand and foot levers of hoisting equipment to position piling leads, hoist piling into leads, and position hammers over pilings. | Hourly or more | 94 |
| Move levers and turn valves to activate power hammers, or to raise and lower drophammers that drive piles to required depths. | Hourly or more | 92 |
| Drive pilings to provide support for buildings or other structures, using heavy equipment with a pile driver head. | Hourly or more | 91 |
| Conduct pre-operational checks on equipment to ensure proper functioning. | Daily | 89 |
| Clean, lubricate, and refill equipment. | Daily | 86 |

Operating Engineers and Other Construction Equipment Operators

47-2073.00



Description: Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Back Hoe Operator, Engineering Equipment Operator, Equipment Operator (EO)

Job Zone

Title: 2 - Some Preparation Needed

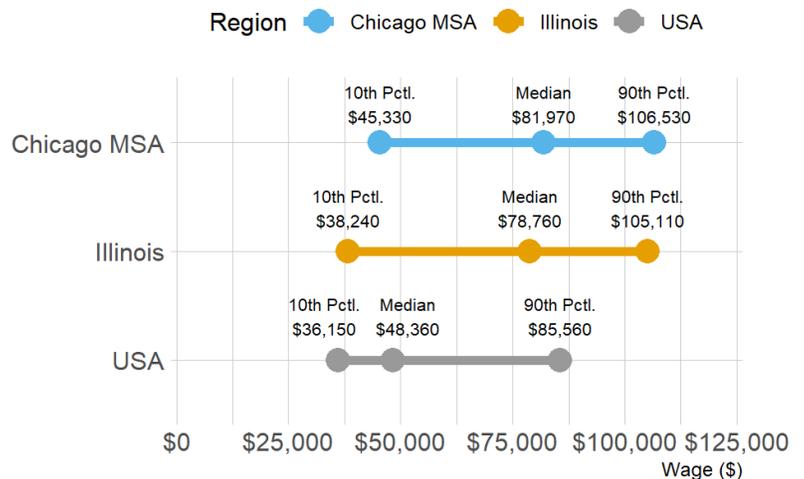
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,580 | 0.62 | \$81,970 |
| Illinois | 11,530 | 0.71 | \$78,760 |
| USA | 404,820 | – | \$48,360 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Learn and follow safety regulations. | Daily | 97 |
| Take actions to avoid potential hazards or obstructions, such as utility lines, other equipment, other workers, or falling objects. | Daily | 94 |
| Start engines, move throttles, switches, or levers, or depress pedals to operate machines, such as bulldozers, trench excavators, road graders, or backhoes. | Hourly or more | 92 |
| Coordinate machine actions with other activities, positioning or moving loads in response to hand or audio signals from crew members. | Daily | 91 |
| Locate underground services, such as pipes or wires, prior to beginning work. | Daily | 90 |

Drywall and Ceiling Tile Installers

47-2081.00



Description: Apply plasterboard or other wallboard to ceilings or interior walls of buildings.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Ceiling Installer, Dry Wall Installer, Drywall Finisher

Job Zone

Title: 2 - Some Preparation Needed

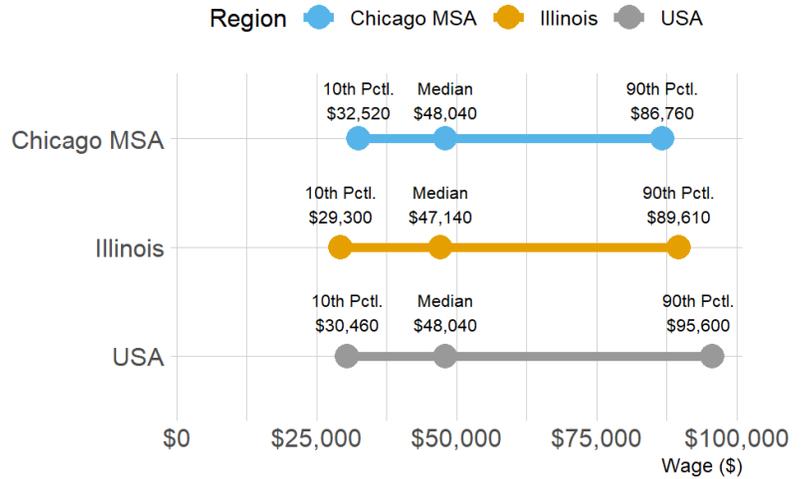
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 790 | 0.27 | \$48,040 |
| Illinois | 1,070 | 0.28 | \$47,140 |
| USA | 97,070 | - | \$48,040 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|------------------|----|
| Read blueprints or other specifications to determine methods of installation, work procedures, or material or tool requirements. | Daily | 84 |
| Measure and mark surfaces to lay out work, according to blueprints or drawings, using tape measures, straightedges or squares, and marking devices. | Daily | 83 |
| Fit and fasten wallboard or drywall into position on wood or metal frameworks, using glue, nails, or screws. | Daily | 79 |
| Measure and cut openings in panels or tiles for electrical outlets, windows, vents, plumbing, or other fixtures, using keyhole saws or other cutting tools. | Daily | 79 |
| Assemble or install metal framing or decorative trim for windows, doorways, or vents. | More than weekly | 78 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Tapers

47-2082.00



Description: Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Drywall Finisher, Drywall Mechanic, Drywall Taper

Job Zone

Title: 2 - Some Preparation Needed

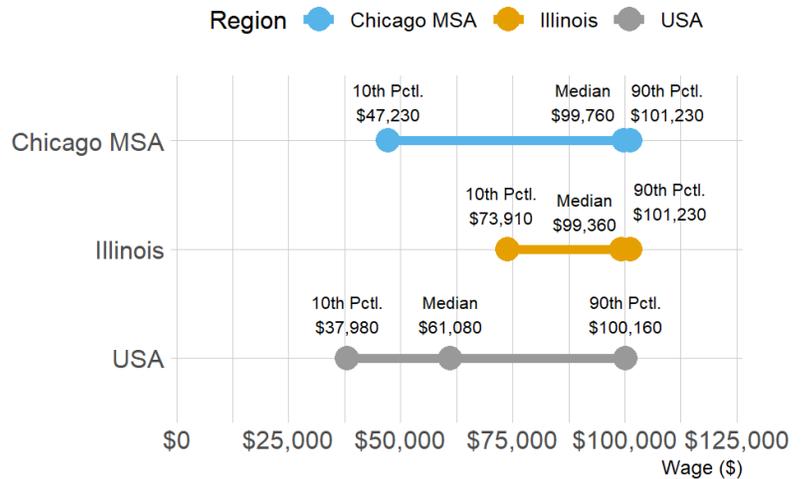
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Intuit QuickBooks, Microsoft Dynamics, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 510 | 1.17 | \$99,760 |
| Illinois | 570 | 0.98 | \$99,360 |
| USA | 14,580 | - | \$61,080 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|----------------|----|
| Spread sealing compound between boards or panels or over cracks, holes, nail heads, or screw heads, using trowels, broadknives, or spatulas. | Hourly or more | 86 |
| Press paper tape over joints to embed tape into sealing compound and to seal joints. | Daily | 86 |
| Seal joints between plasterboard or other wallboard to prepare wall surfaces for painting or papering. | Daily | 85 |
| Apply additional coats to fill in holes and make surfaces smooth. | Daily | 85 |
| Spread and smooth cementing material over tape, using trowels or floating machines to blend joints with wall surfaces. | Daily | 84 |

Electricians

47-2111.00



Description: Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Control Electrician, Industrial Electrician, Inside Wireman

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

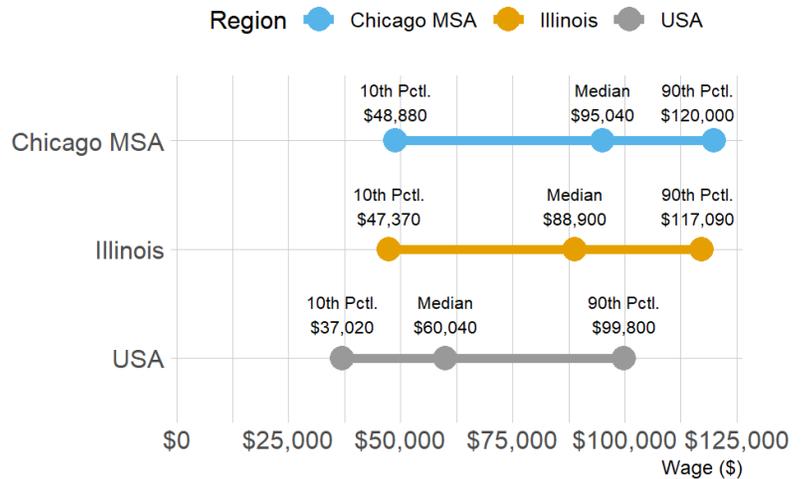
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Lighting Controls Professional, Electrical Certification

Hot Technologies: Adobe Systems Adobe Acrobat, Autodesk AutoCAD, Computer aided design CAD software, Database software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 15,610 | 0.80 | \$95,040 |
| Illinois | 21,050 | 0.81 | \$88,900 |
| USA | 650,580 | - | \$60,040 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Plan layout and installation of electrical wiring, equipment, or fixtures, based on job specifications and local codes.

Daily 91

Connect wires to circuit breakers, transformers, or other components.

Daily 90

Test electrical systems or continuity of circuits in electrical wiring, equipment, or fixtures, using testing devices, such as ohmmeters, voltmeters, or oscilloscopes, to ensure compatibility and safety of system.

Daily 89

Inspect electrical systems, equipment, or components to identify hazards, defects, or the need for adjustment or repair, and to ensure compliance with codes.

Daily 88

Use a variety of tools or equipment, such as power construction equipment, measuring devices, power tools, and testing equipment, such as oscilloscopes, ammeters, or test lamps.

Daily 88



Insulation Workers, Floor, Ceiling, and Wall

47-2131.00



Description: Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Attic Blower, Insulation Estimator, Insulation Installer

Job Zone

Title: 2 - Some Preparation Needed

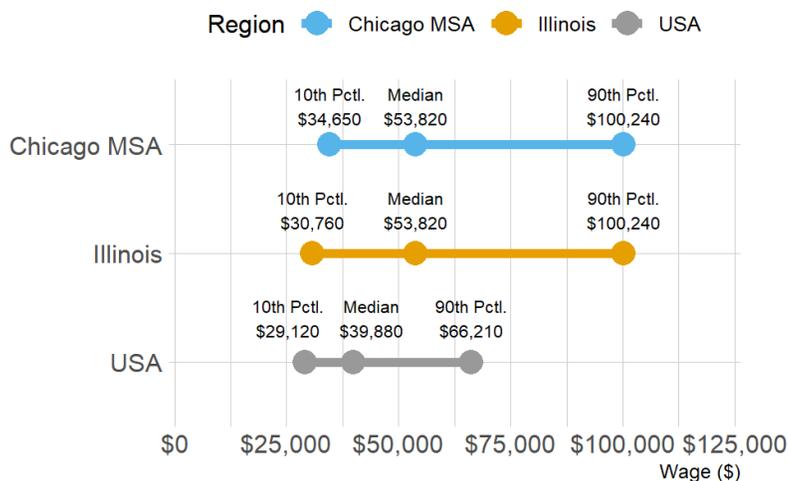
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 920 | 1.01 | \$53,820 |
| Illinois | 1,140 | 0.94 | \$53,820 |
| USA | 30,360 | - | \$39,880 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Measure and cut insulation for covering surfaces, using tape measures, handsaws, power saws, knives, or scissors.

Hourly or more

80

Cover and line structures with blown or rolled forms of materials to insulate against cold, heat, or moisture, using saws, knives, rasps, trowels, blowers, or other tools and implements.

Daily

79

Fit, wrap, staple, or glue insulating materials to structures or surfaces, using hand tools or wires.

Daily

79

Distribute insulating materials evenly into small spaces within floors, ceilings, or walls, using blowers and hose attachments, or cement mortars.

Daily

78

Move controls, buttons, or levers to start blowers and regulate flow of materials through nozzles.

Daily

78



Insulation Workers, Mechanical

47-2132.00



Description: Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Commercial Insulator, Heat and Frost Insulator, Industrial Insulator

Job Zone

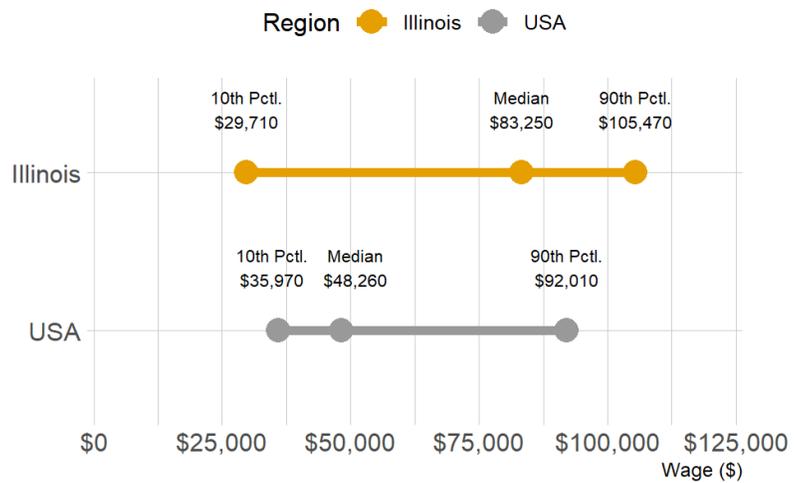
Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 780 | 0.69 | \$83,250 |
| USA | 28,010 | - | \$48,260 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Measure and cut insulation for covering surfaces, using tape measures, handsaws, knives, and scissors. | Hourly or more | 90 |
| Fit insulation around obstructions, and shape insulating materials and protective coverings as required. | Hourly or more | 88 |
| Determine the amounts and types of insulation needed, and methods of installation, based on factors such as location, surface shape, and equipment use. | Daily | 85 |
| Install sheet metal around insulated pipes with screws to protect the insulation from weather conditions or physical damage. | More than monthly | 84 |
| Apply, remove, and repair insulation on industrial equipment, pipes, ductwork, or other mechanical systems such as heat exchangers, tanks, and vessels, to help control noise and maintain temperatures. | Daily | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Painters, Construction and Maintenance

47-2141.00



Description: Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Facilities Painter, Highway Painter, House Painter

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

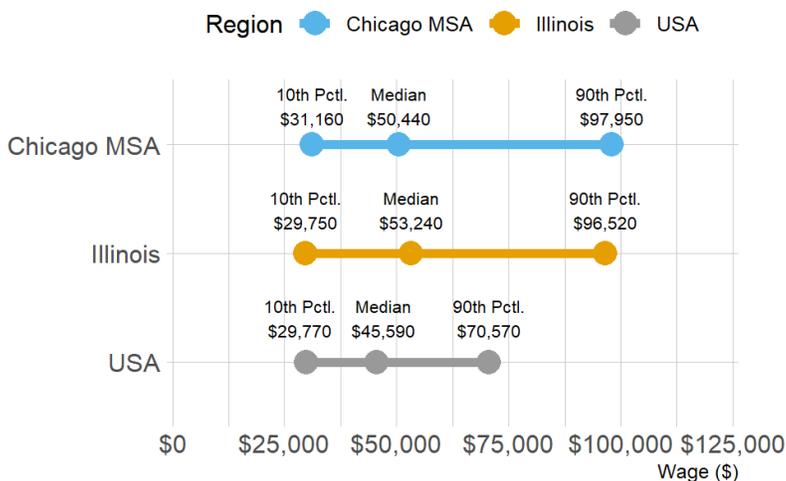
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Apartment Maintenance Technician

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,020 | 0.94 | \$50,440 |
| Illinois | 7,310 | 0.86 | \$53,240 |
| USA | 214,220 | – | \$45,590 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------|----|
| Cover surfaces with dropcloths or masking tape and paper to protect surfaces during painting. | Daily | 85 |
| Fill cracks, holes, or joints with caulk, putty, plaster, or other fillers, using caulking guns or putty knives. | Daily | 85 |
| Smooth surfaces, using sandpaper, scrapers, brushes, steel wool, or sanding machines. | Daily | 85 |
| Apply primers or sealers to prepare new surfaces, such as bare wood or metal, for finish coats. | Daily | 84 |
| Read work orders or receive instructions from supervisors or homeowners to determine work requirements. | Daily | 84 |

Paperhangers

47-2142.00



Description: Cover interior walls or ceilings of rooms with decorative wallpaper or fabric, or attach advertising posters on surfaces such as walls and billboards. May remove old materials or prepare surfaces to be papered.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bill Board Poster, Bill Poster, Hanger

Job Zone

Title: 2 - Some Preparation Needed

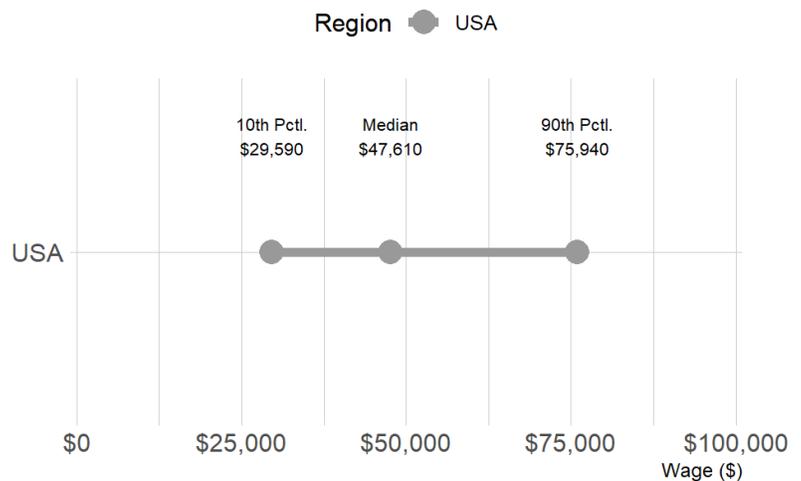
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Google Docs, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 2,340 | – | \$47,610 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Smooth strips or sections of paper with brushes or rollers to remove wrinkles and bubbles and to smooth joints. | Hourly or more | 91 |
| Trim rough edges from strips, using straightedges and trimming knives. | Several times daily | 89 |
| Trim excess material at ceilings or baseboards, using knives. | Hourly or more | 88 |
| Check finished wallcoverings for proper alignment, pattern matching, and neatness of seams. | Hourly or more | 88 |
| Mark vertical guidelines on walls to align strips, using plumb bobs and chalk lines. | Daily | 87 |

Pipelayers

47-2151.00



Description: Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Pipelayer, Tailman, Waste Water Worker

Job Zone

Title: 2 - Some Preparation Needed

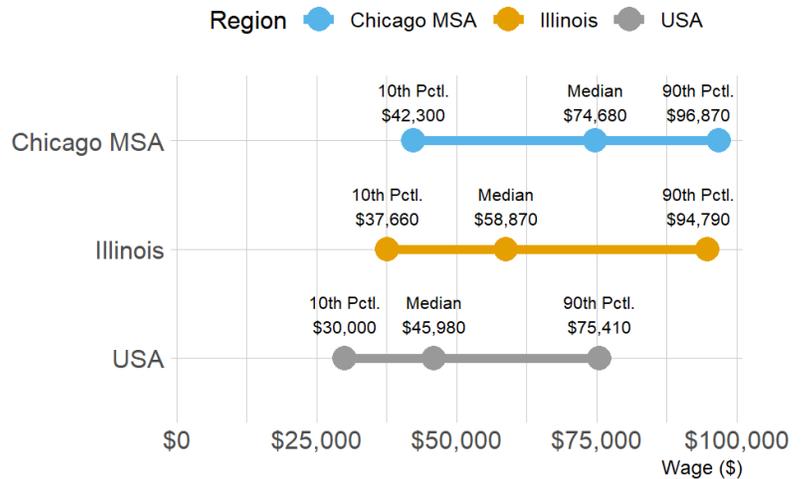
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$74,680 |
| Illinois | - | - | \$58,870 |
| USA | 33,330 | - | \$45,980 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|---------------------|-------------------------|
| Install or use instruments such as lasers, grade rods, or transit levels. | Daily | 89 |
| Cover pipes with earth or other materials. | Daily | 88 |
| Connect pipe pieces and seal joints, using welding equipment, cement, or glue. | Daily | 88 |
| Cut pipes to required lengths. | Several times daily | 88 |
| Install or repair sanitary or stormwater sewer structures or pipe systems. | Daily | 87 |

Plumbers, Pipefitters, and Steamfitters

47-2152.00



Description: Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Drain Technician, Fire Sprinkler Service Technician, Pipe Fitter

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

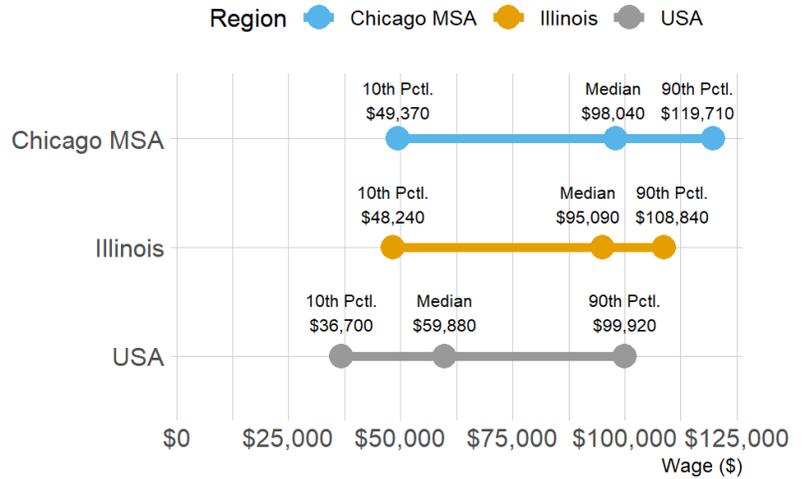
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: IAPMO Plumbing Inspector, IAPMO Plumbing Plans Examiner

Hot Technologies: AEC Design Group CADPIPE, Autodesk Building Systems, Computer aided design CAD software, Database software, Drawing and drafting software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 11,780 | 0.94 | \$98,040 |
| Illinois | 15,790 | 0.95 | \$95,090 |
| USA | 417,620 | - | \$59,880 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------------------|----|
| Cut, thread, or hammer pipes to specifications, using tools such as saws, cutting torches, pipe threaders, or pipe benders. | Hourly or more | 89 |
| Lay out full scale drawings of pipe systems, supports, or related equipment, according to blueprints. | Daily | 88 |
| Inspect, examine, or test installed systems or pipe lines, using pressure gauge, hydrostatic testing, observation, or other methods. | More than monthly | 84 |
| Plan pipe system layout, installation, or repair, according to specifications. | Daily | 84 |
| Attach pipes to walls, structures, or fixtures, such as radiators or tanks, using brackets, clamps, tools, or welding equipment. | Daily | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Plasterers and Stucco Masons

47-2161.00



Description: Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Applicator, Artisan Plasterer, Plaster and Stucco Worker

Job Zone

Title: 1 - Little or No Preparation Needed

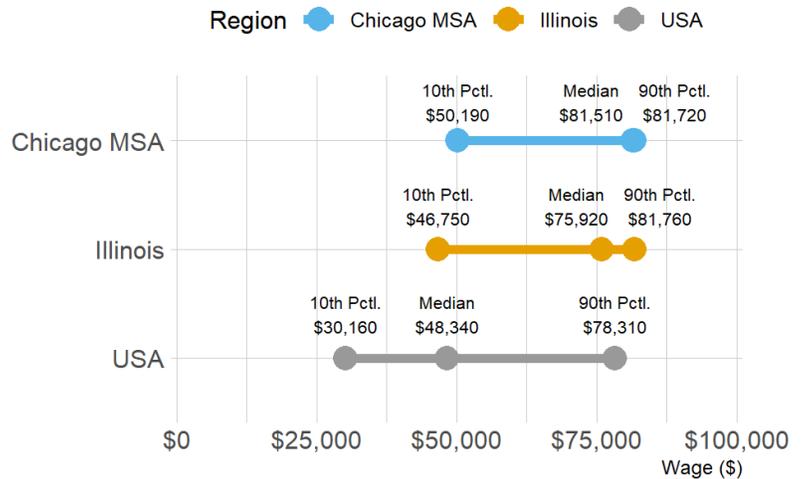
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Hot Technologies: Autodesk 3ds Max Design, Linux, Microsoft Office Suite, Oracle software, Salesforce software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 330 | 0.41 | \$81,510 |
| Illinois | 550 | 0.51 | \$75,920 |
| USA | 26,980 | - | \$48,340 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|-------|----|
| Cover surfaces such as windows, doors, or sidewalks to protect from splashing. | Daily | 87 |
| Clean job sites. | Daily | 85 |
| Apply coats of plaster or stucco to walls, ceilings, or partitions of buildings, using trowels, brushes, or spray guns. | Daily | 82 |
| Mix mortar and plaster to desired consistency or direct workers who perform mixing. | Daily | 82 |
| Set up scaffolds. | Daily | 82 |

Reinforcing Iron and Rebar Workers

47-2171.00



Description: Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Use a variety of fasteners, rod-bending machines, blowtorches, and hand tools. Includes rod busters.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Field Ironworker, Iron Installer, Iron Worker

Job Zone

Title: 2 - Some Preparation Needed

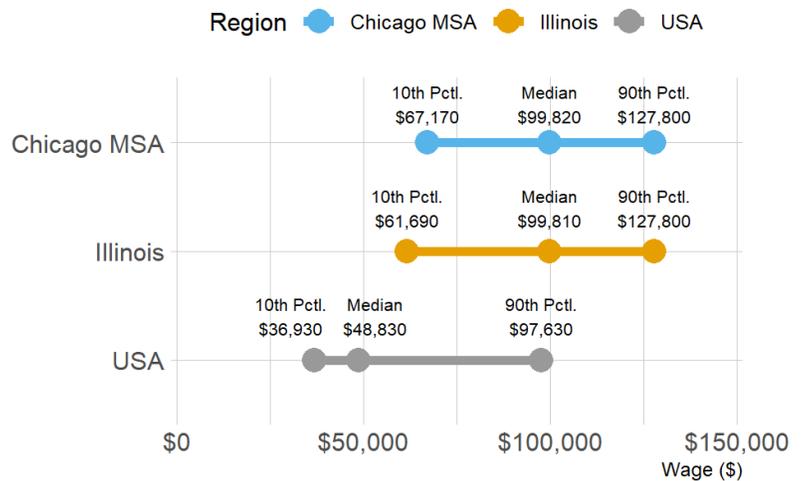
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: OTP ArmaCAD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 480 | 0.98 | \$99,820 |
| Illinois | 610 | 0.92 | \$99,810 |
| USA | 16,420 | - | \$48,830 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|---|----------------|----|
| Determine quantities, sizes, shapes, and locations of reinforcing rods from blueprints, sketches, or oral instructions. | Daily | 87 |
| Position and secure steel bars, rods, cables, or mesh in concrete forms, using fasteners, rod-bending machines, blowtorches, or hand tools. | Hourly or more | 86 |
| Space and fasten together rods in forms according to blueprints, using wire and pliers. | Hourly or more | 86 |
| Place blocks under rebar to hold the bars off the deck when reinforcing floors. | Daily | 80 |
| Cut rods to required lengths, using metal shears, hacksaws, bar cutters, or acetylene torches. | Daily | 80 |



Roofers

47-2181.00



Description: Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Commercial Roofer, Industrial Roofer, Metal Roofing Mechanic

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

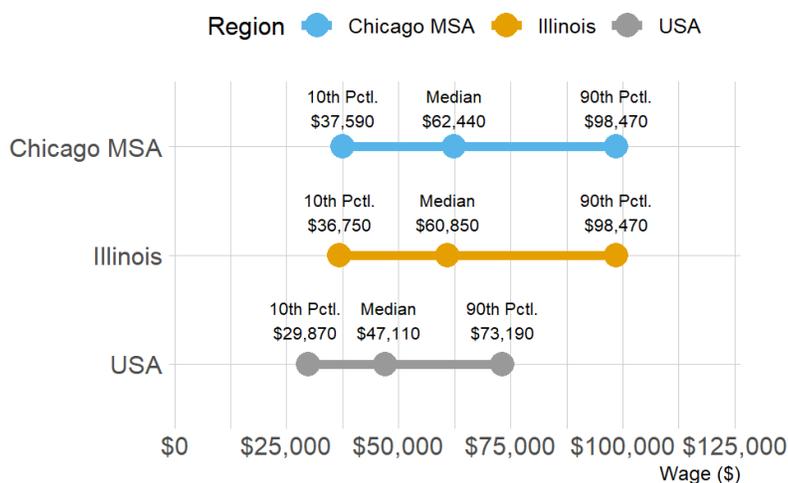
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Registered Waterproofing Consultant, Registered Roof Consultant, Registered Roof Observer

Hot Technologies: AppliCad Roof Wizard, ASR Software LWC-Plus, ASR Software Taper-Plus, ASR Software TopView LE, ASR Software TopView ME, DigiTools Roof CAD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,850 | 0.99 | \$62,440 |
| Illinois | 5,210 | 1.01 | \$60,850 |
| USA | 129,890 | – | \$47,110 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|------------------|-------------------------|
| Inspect problem roofs to determine the best repair procedures. | Daily | 92 |
| Remove snow, water, or debris from roofs prior to applying roofing materials. | Daily | 85 |
| Set up scaffolding to provide safe access to roofs. | More than yearly | 84 |
| Estimate materials and labor required to complete roofing jobs. | Daily | 83 |
| Cement or nail flashing strips of metal or shingle over joints to make them watertight. | Daily | 82 |

Sheet Metal Workers

47-2211.00



Description: Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Field Installer, HVAC Sheet Metal Installer (Heating, Ventilation

Job Zone

Title: 2 - Some Preparation Needed

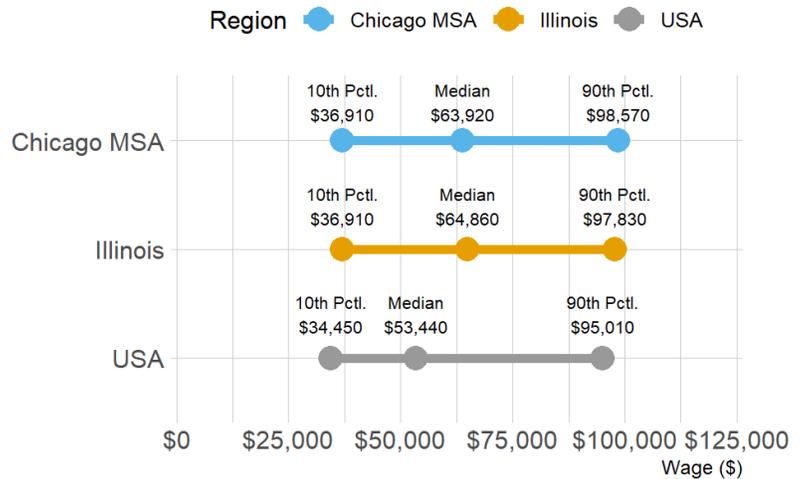
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Applied Production ProFold, Autodesk AutoCAD, Computer aided design CAD software, Corte Certo, FCC Software AutoPOL Series, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 4,090 | 1.11 | \$63,920 |
| Illinois | 5,300 | 1.08 | \$64,860 |
| USA | 122,630 | - | \$53,440 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|----------------|----|
| Convert blueprints into shop drawings to be followed in the construction or assembly of sheet metal products. | Daily | 88 |
| Determine project requirements, such as scope, assembly sequences, or required methods or materials, using blueprints, drawings, or written or verbal instructions. | Hourly or more | 87 |
| Lay out, measure, and mark dimensions and reference lines on material, such as roofing panels, using calculators, scribes, dividers, squares, or rulers. | Hourly or more | 87 |
| Fasten seams or joints together with welds, bolts, cement, rivets, solder, caulks, metal drive clips, or bonds to assemble components into products or to repair sheet metal items. | Daily | 85 |
| Trim, file, grind, deburr, buff, or smooth surfaces, seams, or joints of assembled parts, using hand tools or portable power tools. | Hourly or more | 83 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Structural Iron and Steel Workers

47-2221.00



Description: Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Fitter, Iron Worker, Ironworker

Job Zone

Title: 2 - Some Preparation Needed

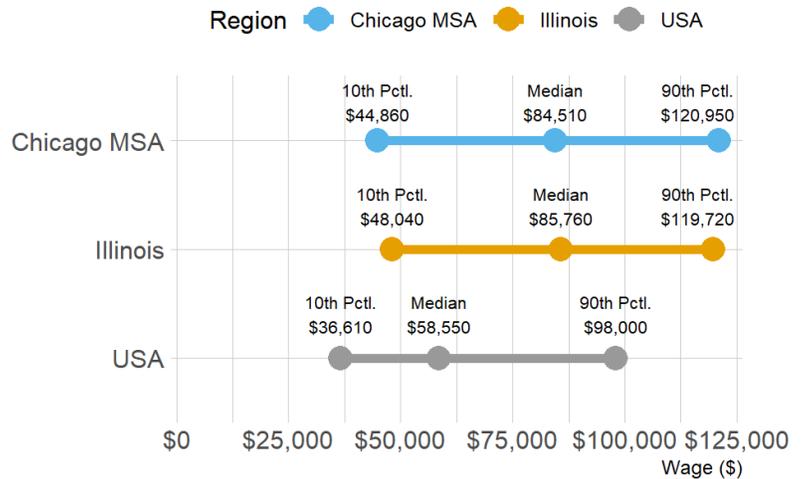
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Computer aided design CAD software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,010 | 0.98 | \$84,510 |
| Illinois | 2,350 | 0.86 | \$85,760 |
| USA | 68,620 | - | \$58,550 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Read specifications or blueprints to determine the locations, quantities, or sizes of materials required.

Hourly or more **91**

Connect columns, beams, and girders with bolts, following blueprints and instructions from supervisors.

Hourly or more **90**

Bolt aligned structural steel members in position for permanent riveting, bolting, or welding into place.

Hourly or more **88**

Fasten structural steel members to hoist cables, using chains, cables, or rope.

Hourly or more **87**

Verify vertical and horizontal alignment of structural steel members, using plumb bobs, laser equipment, transits, or levels.

Daily **86**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Solar Photovoltaic Installers

47-2231.00



Description: Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Installer, Photovoltaic Installer (PV Installer)

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

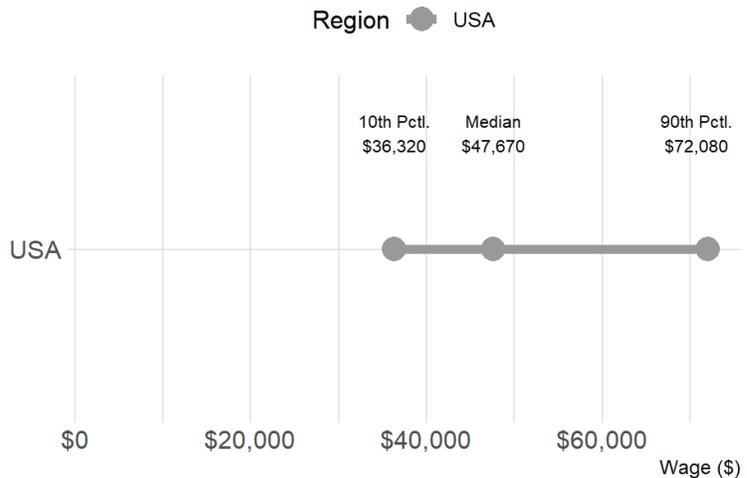
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Electrical Safety Technician, Photovoltaic Associate, Photovoltaic Installer - Level 1, Solar PV Certification

Hot Technologies: Computer aided design CAD software, Extensible markup language XML, Microsoft Office Suite, Salesforce software

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 16,420 | - | \$47,670 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
| Install photovoltaic (PV) systems in accordance with codes and standards, using drawings, schematics, and instructions. | Daily | 89 |
| Assemble solar modules, panels, or support structures, as specified. | Daily | 88 |
| Apply weather sealing to array, building, or support mechanisms. | Daily | 87 |
| Determine appropriate sizes, ratings, and locations for all system overcurrent devices, disconnect devices, grounding equipment, and surge suppression equipment. | Daily | 87 |
| Identify electrical, environmental, and safety hazards associated with photovoltaic (PV) installations. | Daily | 86 |

Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters

47-3011.00



Description: Help brickmasons, blockmasons, stonemasons, or tile and marble setters by performing duties requiring less skill.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bricklayer Helper, Hod Carrier, Marble Finisher Helper

Job Zone

Title: 2 - Some Preparation Needed

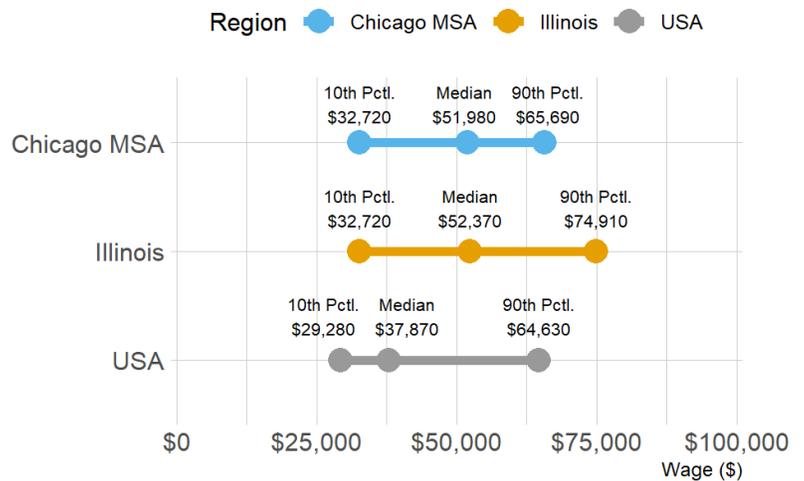
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk Revit, Computer aided design and drafting CADD software, EasyCAD Iris 2D, Intuit QuickBooks, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 210 | 0.38 | \$51,980 |
| Illinois | 220 | 0.31 | \$52,370 |
| USA | 18,210 | - | \$37,870 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|----------------|----|
| Mix mortar, plaster, and grout, manually or using machines, according to standard formulas. | Hourly or more | 91 |
| Erect scaffolding or other installation structures. | Daily | 86 |
| Cut materials to specified sizes for installation, using power saws or tile cutters. | Daily | 85 |
| Modify material moving, mixing, grouting, grinding, polishing, or cleaning procedures, according to installation or material requirements. | Hourly or more | 84 |
| Provide assistance in the preparation, installation, repair, or rebuilding of tile, brick, or stone surfaces. | Daily | 84 |



Helpers--Carpenters

47-3012.00



Description: Help carpenters by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Carpenter Assistant, Carpenter Helper, Carpenter's Helper

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

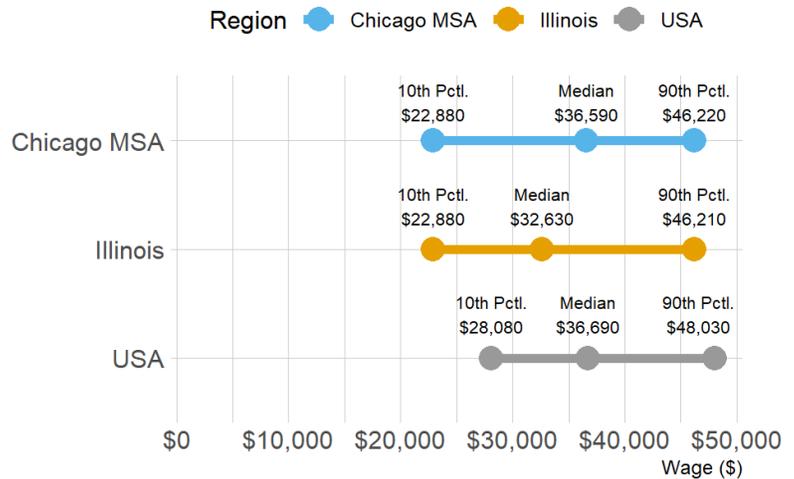
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Graduate Associate

Hot Technologies: Drawing and drafting software, Intuit QuickBooks, Linux, Microsoft Access, Microsoft Office Suite, Microsoft SharePoint, Oracle software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 190 | 0.23 | \$36,590 |
| Illinois | 310 | 0.28 | \$32,630 |
| USA | 27,540 | - | \$36,690 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Fasten timbers or lumber with glue, screws, pegs, or nails and install hardware. | Hourly or more | 81 |
| Clean work areas, machines, or equipment, to maintain a clean and safe job site. | Daily | 81 |
| Perform tie spacing layout and measure, mark, drill or cut. | More than weekly | 81 |
| Select tools, equipment, or materials from storage and transport items to work site. | Daily | 80 |
| Drill holes in timbers or lumber. | Daily | 79 |

Helpers--Electricians

47-3013.00



Description: Help electricians by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Electrician Helper, Electrician's Helper

Job Zone

Title: 2 - Some Preparation Needed

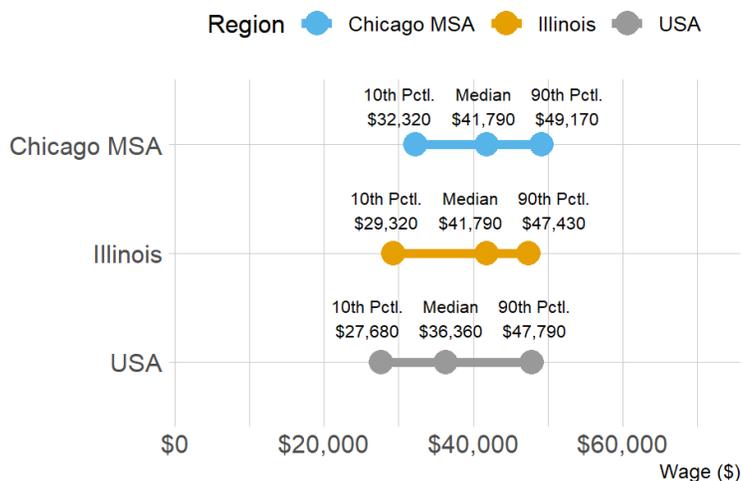
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Computer-aided drafting or design software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$41,790 |
| Illinois | 450 | 0.16 | \$41,790 |
| USA | 72,150 | - | \$36,360 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
|---|-----------|-------------------------|

| | | |
|---|-------------------|----|
| Measure, cut, and bend wire and conduit, using measuring instruments and hand tools. | Daily | 82 |
| Trace out short circuits in wiring, using test meter. | More than monthly | 81 |
| Strip insulation from wire ends, using wire stripping pliers, and attach wires to terminals for subsequent soldering. | Daily | 81 |
| Examine electrical units for loose connections and broken insulation and tighten connections, using hand tools. | Daily | 78 |
| Maintain tools, vehicles, and equipment and keep parts and supplies in order. | Daily | 75 |

Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons

47-3014.00



Description: Help painters, paperhangers, plasterers, or stucco masons by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Painter Helper, Plaster Helper, Plaster Tender

Job Zone

Title: 1 - Little or No Preparation Needed

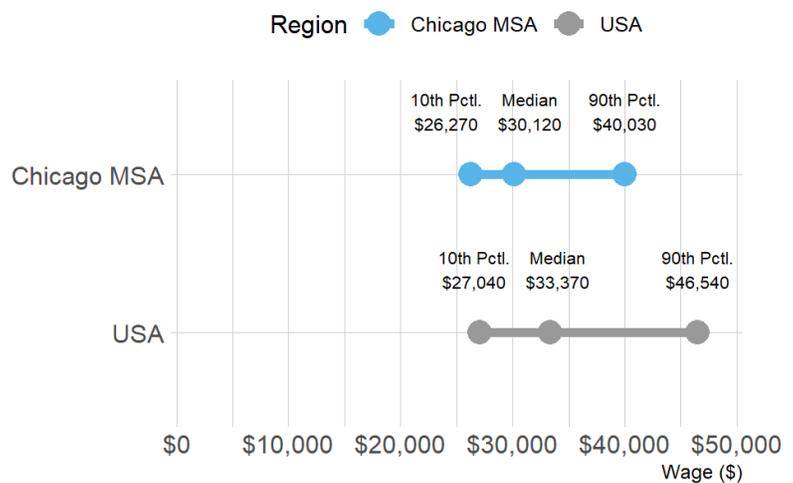
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 40 | 0.13 | \$30,120 |
| USA | 8,940 | – | \$33,370 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
| Clean work areas and equipment. | Daily | 82 |
| Perform support duties to assist painters, paperhangers, plasterers, or masons. | Daily | 79 |
| Apply protective coverings, such as masking tape, to articles or areas that could be damaged or stained by work processes. | Daily | 77 |
| Erect scaffolding. | Daily | 74 |
| Fill cracks or breaks in surfaces of plaster articles or areas with putty or epoxy compounds. | Daily | 74 |

Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters

47-3015.00



Description: Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Plumber's Helper

Job Zone

Title: 2 - Some Preparation Needed

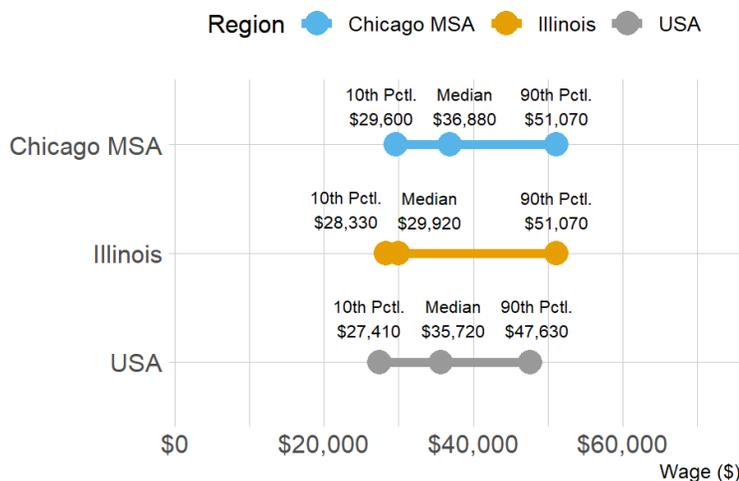
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$36,880 |
| Illinois | - | - | \$29,920 |
| USA | 45,930 | - | \$35,720 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|------------------|----|
| Cut or drill holes in walls or floors to accommodate the passage of pipes. | More than weekly | 80 |
| Measure, cut, thread and assemble new pipe, placing the assembled pipe in hangers or other supports. | More than weekly | 80 |
| Perform rough-ins, repair and replace fixtures and water heaters, and locate, repair, or remove leaking or broken pipes. | Daily | 80 |
| Assist pipe fitters in the layout, assembly, and installation of piping for air, ammonia, gas, and water systems. | Daily | 79 |
| Requisition tools and equipment, select type and size of pipe, and collect and transport materials and equipment to work site. | Daily | 77 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Helpers--Roofers

47-3016.00



Description: Help roofers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Roofer Helper

Job Zone

Title: 2 - Some Preparation Needed

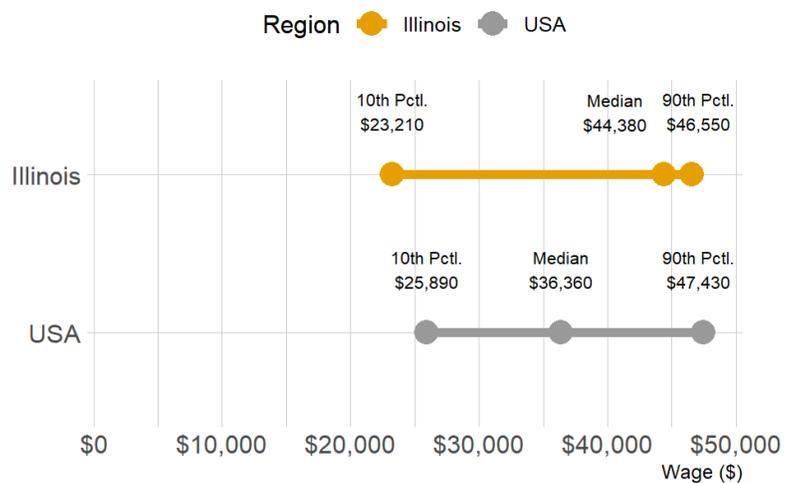
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: AppliCad Roof Wizard, DigiTools Roof CAD, Ziatek RoofDraw

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | – | – | \$44,380 |
| USA | 6,830 | – | \$36,360 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
| Check to ensure that completed roofs are watertight. | Daily | 87 |
| Sweep and clean roofs to prepare them for the application of new roofing materials. | Daily | 87 |
| Locate worn or torn areas in roofs. | Daily | 85 |
| Clean work areas and equipment. | Daily | 84 |
| Maintain tools and equipment. | Daily | 83 |

Construction and Building Inspectors

47-4011.00



Description: Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Building Inspection Engineer, Building Inspector, Building Official

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

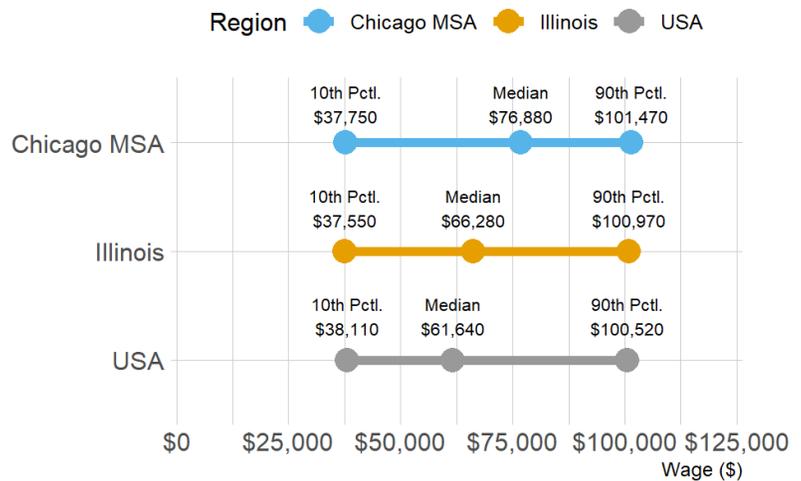
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Healthy Home Evaluator, IAPMO Plumbing Inspector, IAPMO Plumbing Plans Examiner, IAPMO Mechanical Inspector, Multifamily Building Operator

Hot Technologies: Arc Second PocketCAD, Autodesk AutoCAD, Database software, Intuit QuickBooks, Microsoft Office Suite, Municipal geographic management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,120 | 0.60 | \$76,880 |
| Illinois | 3,080 | 0.66 | \$66,280 |
| USA | 117,830 | - | \$61,640 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------|----|
| Monitor installation of plumbing, wiring, equipment, or appliances to ensure that installation is performed properly and is in compliance with applicable regulations. | Daily | 86 |
|--|-------|----|

| | | |
|---|-------|----|
| Approve building plans that meet required specifications. | Daily | 85 |
|---|-------|----|

| | | |
|--|-------|----|
| Inspect and monitor construction sites to ensure adherence to safety standards, building codes, or specifications. | Daily | 83 |
|--|-------|----|

| | | |
|--|-------|----|
| Inspect bridges, dams, highways, buildings, wiring, plumbing, electrical circuits, sewers, heating systems, or foundations during and after construction for structural quality, general safety, or conformance to specifications and codes. | Daily | 82 |
|--|-------|----|

| | | |
|--|-------|----|
| Review and interpret plans, blueprints, site layouts, specifications, or construction methods to ensure compliance to legal requirements and safety regulations. | Daily | 81 |
|--|-------|----|



Fence Erectors

47-4031.00



Description: Erect and repair fences and fence gates, using hand and power tools.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Fence Builder, Fence Contractor, Fence Erector

Job Zone

Title: 2 - Some Preparation Needed

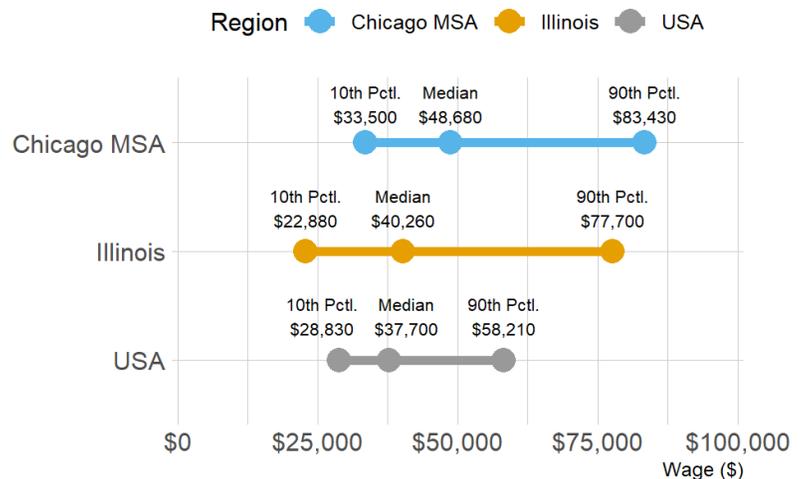
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Cutlist Plus fx, Facebook, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | – | – | \$48,680 |
| Illinois | – | – | \$40,260 |
| USA | 24,470 | – | \$37,700 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Establish the location for a fence, and gather information needed to ensure that there are no electric cables or water lines in the area.

Daily

89

Measure and lay out fence lines and mark posthole positions, following instructions, drawings, or specifications.

Daily

88

Set metal or wooden posts in upright positions in postholes.

Daily

88

Align posts, by lines or sighting, and verify vertical alignment of posts, using plumb bobs or spirit levels.

Daily

87

Attach rails or tension wire along bottoms of posts to form fencing frames.

Daily

85

Hazardous Materials Removal Workers

47-4041.00



Description: Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, or contaminated soil.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Abatement Worker, Asbestos Abatement Worker

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

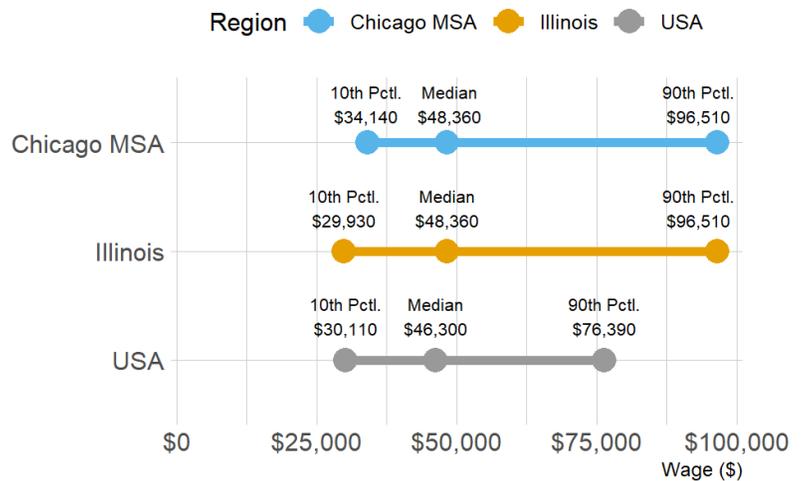
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Student Certified Hazardous Materials Manager

Hot Technologies: Database software, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 960 | 0.72 | \$48,360 |
| Illinois | 1,160 | 0.66 | \$48,360 |
| USA | 44,240 | - | \$46,300 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Build containment areas prior to beginning abatement or decontamination work. | Daily | 89 |
| Remove asbestos or lead from surfaces, using hand or power tools such as scrapers, vacuums, or high-pressure sprayers. | Daily | 88 |
| Identify asbestos, lead, or other hazardous materials to be removed, using monitoring devices. | Daily | 87 |
| Prepare hazardous material for removal or storage. | More than weekly | 86 |
| Comply with prescribed safety procedures or federal laws regulating waste disposal methods. | Daily | 85 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Highway Maintenance Workers

47-4051.00



Description: Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Duties include patching broken or eroded pavement and repairing guard rails, highway markers, and snow fences.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Equipment Operator (EO), Highway Maintainer

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

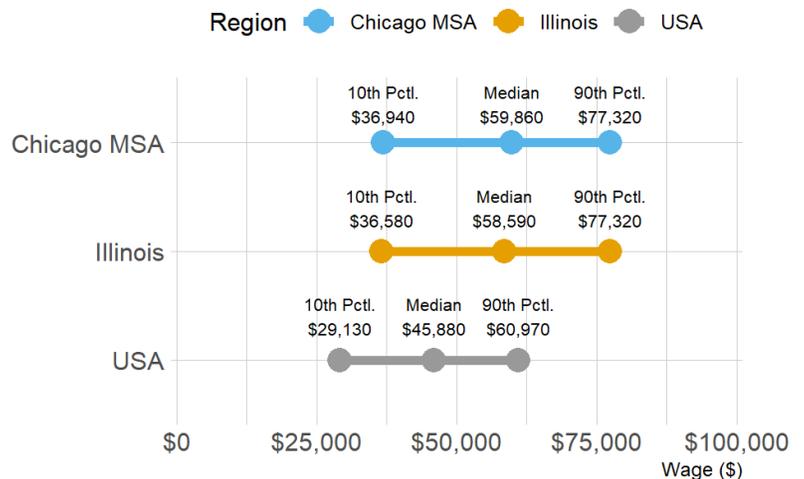
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Guardrail Installer, Certified Truck-Mounted Attenuator Operator, Signs & Pavement Markings Technician Level I, Certified Flagger

Hot Technologies: Database software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,340 | 0.55 | \$59,860 |
| Illinois | 6,080 | 1.08 | \$58,590 |
| USA | 141,150 | - | \$45,880 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
| Set out signs and cones around work areas to divert traffic. | Daily | 90 |
| Flag motorists to warn them of obstacles or repair work ahead. | Daily | 87 |
| Perform preventative maintenance on vehicles and heavy equipment. | Daily | 86 |
| Drive trucks to transport crews and equipment to work sites. | Daily | 85 |
| Erect, install, or repair guardrails, road shoulders, berms, highway markers, warning signals, and highway lighting, using hand tools and power tools. | Daily | 85 |

Rail-Track Laying and Maintenance Equipment Operators

47-4061.00



Description: Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Machine Operator, Rail Maintenance Worker, Track Equipment Operator (TEO)

Job Zone

Title: 2 - Some Preparation Needed

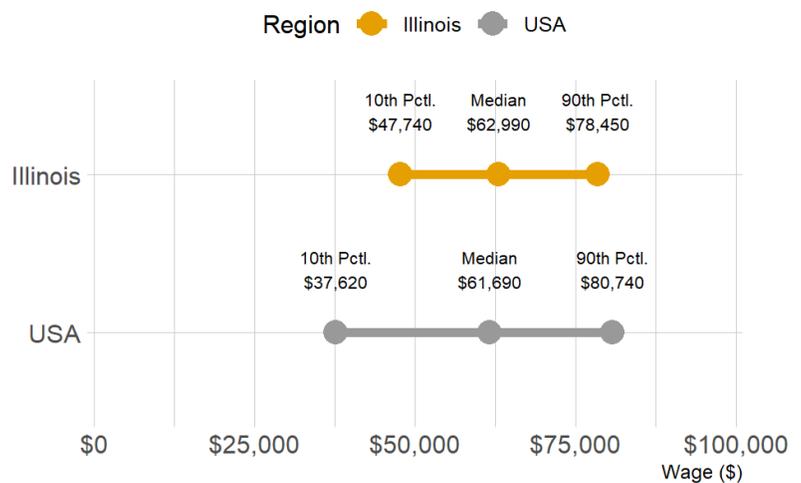
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Enterprise resource planning ERP software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 950 | 1.13 | \$62,990 |
| USA | 21,030 | - | \$61,690 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Patrol assigned track sections so that damaged or broken track can be located and reported. | More than weekly | 90 |
| Repair or adjust track switches, using wrenches and replacement parts. | More than monthly | 86 |
| Weld sections of track together, such as switch points and frogs. | More than yearly | 83 |
| Observe leveling indicator arms to verify levelness and alignment of tracks. | Daily | 82 |
| Operate single- or multiple-head spike driving machines to drive spikes into ties and secure rails. | Daily | 82 |

Septic Tank Servicers and Sewer Pipe Cleaners

47-4071.00



Description: Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Drain Cleaner, Drain Technician, Public Works Technician

Job Zone

Title: 1 - Little or No Preparation Needed

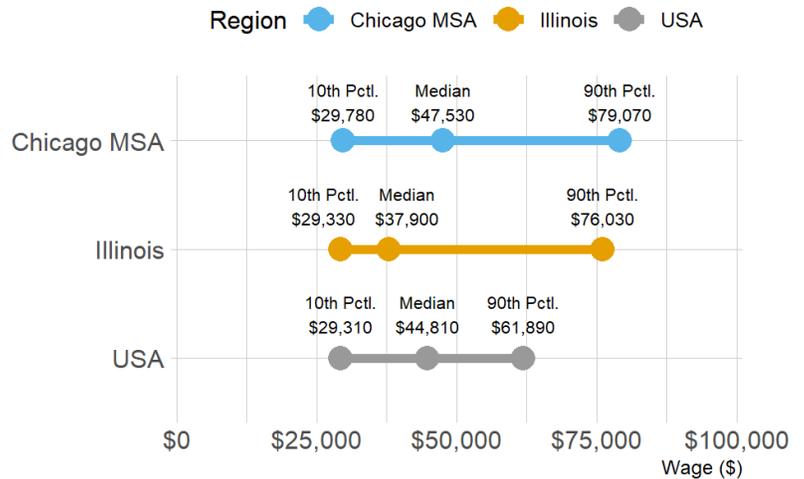
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Hot Technologies: Intuit QuickBooks, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 520 | 0.61 | \$47,530 |
| Illinois | 840 | 0.74 | \$37,900 |
| USA | 28,620 | - | \$44,810 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Communicate with supervisors and other workers, using equipment such as wireless phones, pagers, or radio telephones. | Daily | 81 |
| Drive trucks to transport crews, materials, and equipment. | Daily | 80 |
| Inspect manholes to locate sewer line stoppages. | More than weekly | 80 |
| Operate sewer cleaning equipment, including power rodders, high-velocity water jets, sewer flushers, bucket machines, wayne balls, and vac-alls. | Hourly or more | 79 |
| Prepare and keep records of actions taken, including maintenance and repair work. | Daily | 78 |

Excavating and Loading Machine and Dragline Operators, Surface Mining

47-5022.00



Description: Operate or tend machinery at surface mining site, equipped with scoops, shovels, or buckets to excavate and load loose materials.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Backhoe Operator, Dragline Oiler, Dragline Operator

Job Zone

Title: 2 - Some Preparation Needed

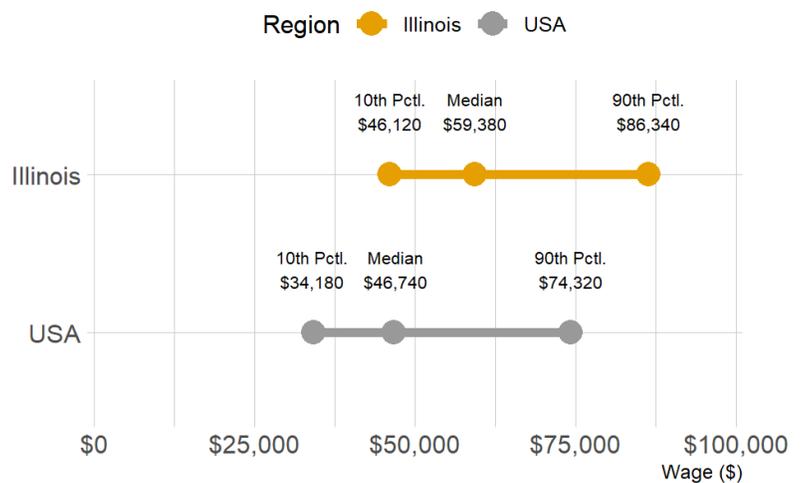
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 380 | 0.27 | \$59,380 |
| USA | 35,720 | - | \$46,740 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Move levers, depress foot pedals, and turn dials to operate power machinery, such as power shovels, stripping shovels, scraper loaders, or backhoes. | Hourly or more | 91 |
| Set up or inspect equipment prior to operation. | Daily | 91 |
| Become familiar with digging plans, machine capabilities and limitations, and with efficient and safe digging procedures in a given application. | Daily | 89 |
| Observe hand signals, grade stakes, or other markings when operating machines so that work can be performed to specifications. | Daily | 88 |
| Operate machinery to perform activities such as backfilling excavations, vibrating or breaking rock or concrete, or making winter roads. | Hourly or more | 84 |

Earth Drillers, Except Oil and Gas

47-5023.00



Description: Operate a variety of drills such as rotary, churn, and pneumatic to tap subsurface water and salt deposits, to remove core samples during mineral exploration or soil testing.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Blast Hole Driller, Diamond Driller, Drill Operator

Job Zone

Title: 2 - Some Preparation Needed

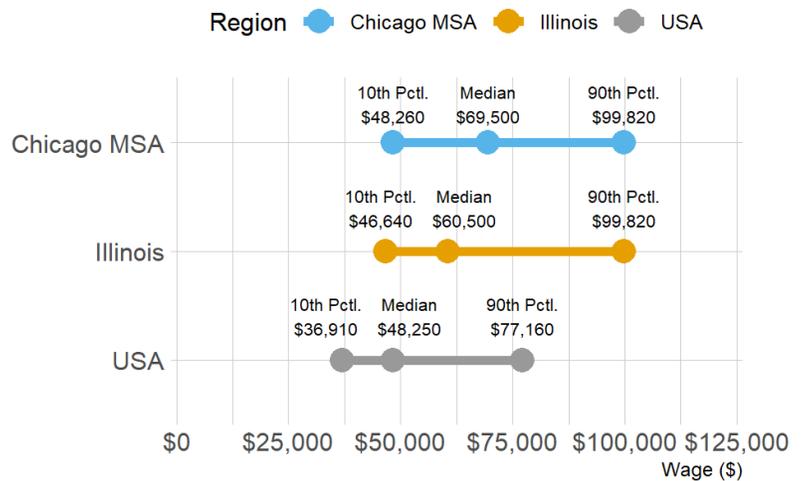
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 150 | 0.32 | \$69,500 |
| Illinois | 180 | 0.28 | \$60,500 |
| USA | 15,800 | – | \$48,250 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|----------------|----|
| Start, stop, and control drilling speed of machines and insertion of casings into holes. | Hourly or more | 87 |
| Operate controls to stabilize machines and to position and align drills. | Hourly or more | 87 |
| Regulate air pressure, rotary speed, and downward pressure, according to the type of rock or concrete being drilled. | Hourly or more | 86 |
| Select and attach drill bits and drill rods, adding more rods as hole depths increase, and changing drill bits as needed. | Daily | 85 |
| Drive or guide truck-mounted equipment into position, level and stabilize rigs, and extend telescoping derricks. | Daily | 85 |

Explosives Workers, Ordnance Handling Experts, and Blasters

47-5032.00



Description: Place and detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. May perform specialized handling, storage, and accounting procedures.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Blast Hole Driller, Blaster, Explosive Technician

Job Zone

Title: 2 - Some Preparation Needed

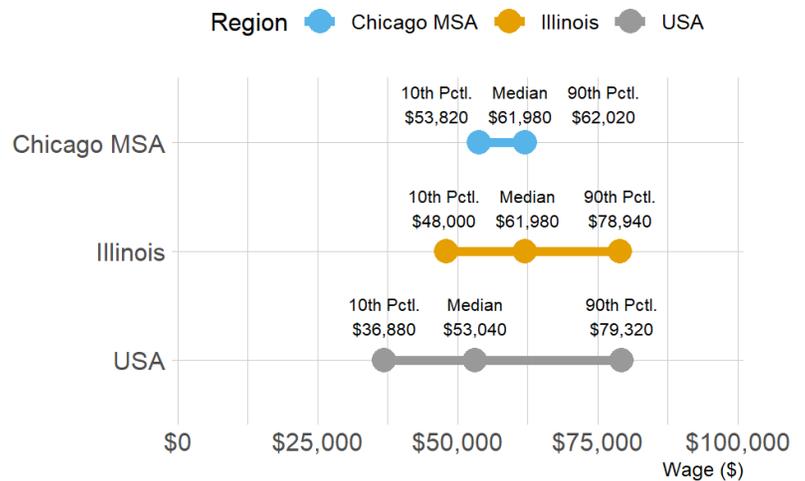
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, ESRI ArcGIS software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$61,980 |
| Illinois | 230 | 1.07 | \$61,980 |
| USA | 5,370 | - | \$53,040 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|------------------|----|
| Examine blast areas to determine amounts and kinds of explosive charges needed and to ensure that safety laws are observed. | Daily | 98 |
| Tie specified lengths of delaying fuses into patterns in order to time sequences of explosions. | More than weekly | 94 |
| Place safety cones around blast areas to alert other workers of danger zones, and signal workers as necessary to ensure that they clear blast sites prior to explosions. | Daily | 93 |
| Place explosive charges in holes or other spots; then detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. | Daily | 92 |
| Insert, pack, and pour explosives, such as dynamite, ammonium nitrate, black powder, or slurries into blast holes; then shovel drill cuttings, admit water into boreholes, and tamp material to compact charges. | Hourly or more | 91 |

Helpers--Extraction Workers

47-5081.00



Description: Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators, by performing duties requiring less skill.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Continuous Miner Operator Helper, Driller Helper, Driller's Assistant

Job Zone

Title: 2 - Some Preparation Needed

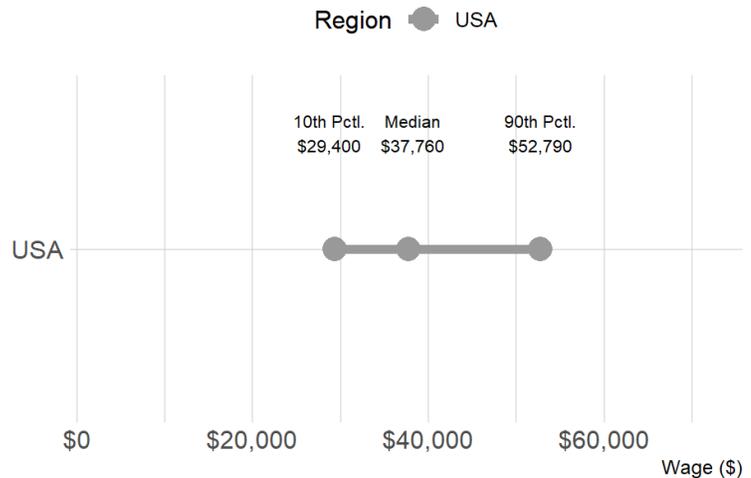
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Enterprise resource planning ERP software, Google Docs, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 5,980 | - | \$37,760 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
| Observe and monitor equipment operation during the extraction process to detect any problems. | Daily | 86 |
| Drive moving equipment to transport materials and parts to excavation sites. | Daily | 81 |
| Unload materials, devices, and machine parts, using hand tools. | Daily | 80 |
| Set up and adjust equipment used to excavate geological materials. | Daily | 79 |
| Organize materials to prepare for use. | Daily | 78 |

First-Line Supervisors of Mechanics, Installers, and Repairers

49-1011.00



Description: Directly supervise and coordinate the activities of mechanics, installers, and repairers. May also advise customers on recommended services. Excludes team or work leaders.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Electrical and Instrumentation Supervisor (E and I Supervisor)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

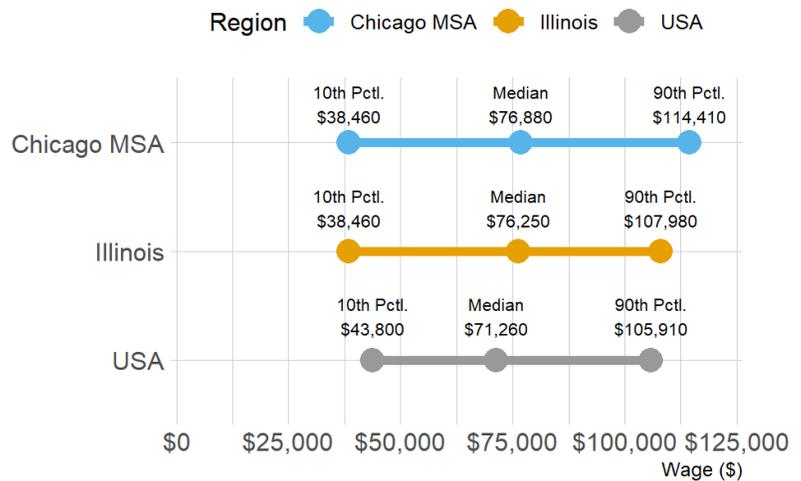
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Service Manager

Hot Technologies: Autodesk AutoCAD, Database software, IBM Notes, Infor ERP Syteline, Microsoft Access, Microsoft Dynamics, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 12,110 | 0.77 | \$76,880 |
| Illinois | 16,390 | 0.78 | \$76,250 |
| USA | 526,240 | - | \$71,260 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|------------------|----|
| Inspect, test, and measure completed work, using devices such as hand tools or gauges to verify conformance to standards or repair requirements. | Daily | 78 |
| Inspect and monitor work areas, examine tools and equipment, and provide employee safety training to prevent, detect, and correct unsafe conditions or violations of procedures and safety rules. | Daily | 78 |
| Monitor employees' work levels and review work performance. | Daily | 77 |
| Interpret specifications, blueprints, or job orders to construct templates and lay out reference points for workers. | More than weekly | 77 |
| Perform skilled repair or maintenance operations, using equipment such as hand or power tools, hydraulic presses or shears, or welding equipment. | Daily | 76 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Radio, Cellular, and Tower Equipment Installers and Repairers

49-2021.00



Description: Repair, install, or maintain mobile or stationary radio transmitting, broadcasting, and receiving equipment, and two-way radio communications systems used in cellular telecommunications, mobile broadband.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Avionics Technician, Communications Systems Technician

Job Zone

Title: 3 - Medium Preparation Needed

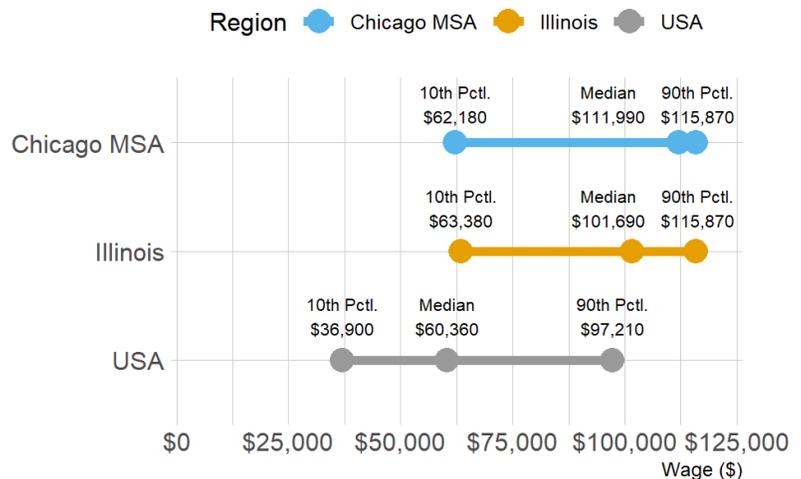
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 210 | 0.52 | \$111,990 |
| Illinois | 310 | 0.57 | \$101,690 |
| USA | 13,700 | - | \$60,360 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Read work orders, blueprints, plans, datasheets or site drawings to determine work to be done.

Daily 86

Inspect completed work to ensure all hardware is tight, antennas are level, hangers are properly fastened, proper support is in place, or adequate weather proofing has been installed.

Daily 84

Bolt equipment into place, using hand or power tools.

Daily 82

Test operation of tower transmission components, using sweep testing tools or software.

More than monthly 82

Run appropriate power, ground, or coaxial cables.

Daily 81



Telecommunications Equipment Installers and Repairers, Except Line Installers

49-2022.00



Description: Install, set up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Broadband Technician, Central Office Technician, Combination Technician

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

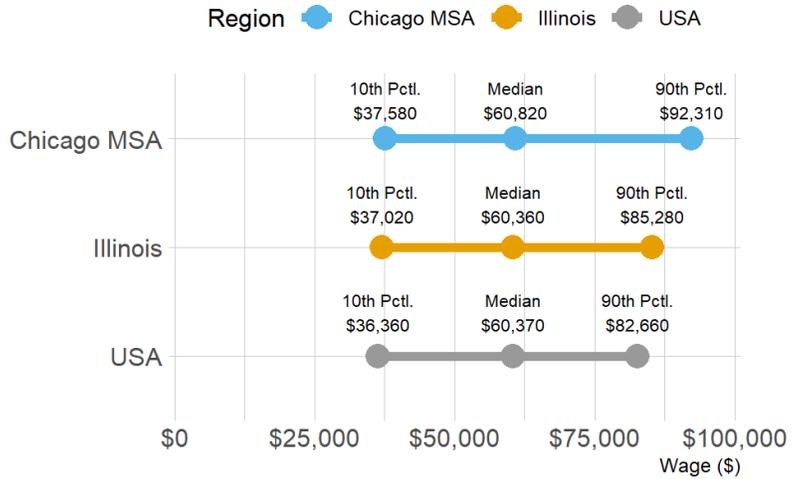
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: General Communications Technician - Level 3, Inside Electrical Craft Certification, Cable Splicing Certification

Hot Technologies: Apache Struts, Microsoft Office Suite, Supervisory control and data acquisition SCADA software, Voice over internet protocol VoIP system software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,700 | 1.29 | \$60,820 |
| Illinois | 9,640 | 1.40 | \$60,360 |
| USA | 172,830 | - | \$60,370 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|---------------------|----|
| Demonstrate equipment to customers and explain its use, responding to any inquiries or complaints. | Hourly or more | 87 |
| Test circuits and components of malfunctioning telecommunications equipment to isolate sources of malfunctions, using test meters, circuit diagrams, polarity probes, and other hand tools. | Daily | 86 |
| Test repaired, newly installed, or updated equipment to ensure that it functions properly and conforms to specifications, using test equipment and observation. | More than weekly | 86 |
| Climb poles and ladders, use truck-mounted booms, and enter areas such as manholes and cable vaults to install, maintain, or inspect equipment. | Several times daily | 85 |
| Assemble and install communication equipment such as data and telephone communication lines, wiring, switching equipment, wiring frames, power apparatus, computer systems, and networks. | Several times daily | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Avionics Technicians

49-2091.00



Description: Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aircraft Electrical Systems Specialist, Aircraft Technician

Job Zone

Title: 3 - Medium Preparation Needed

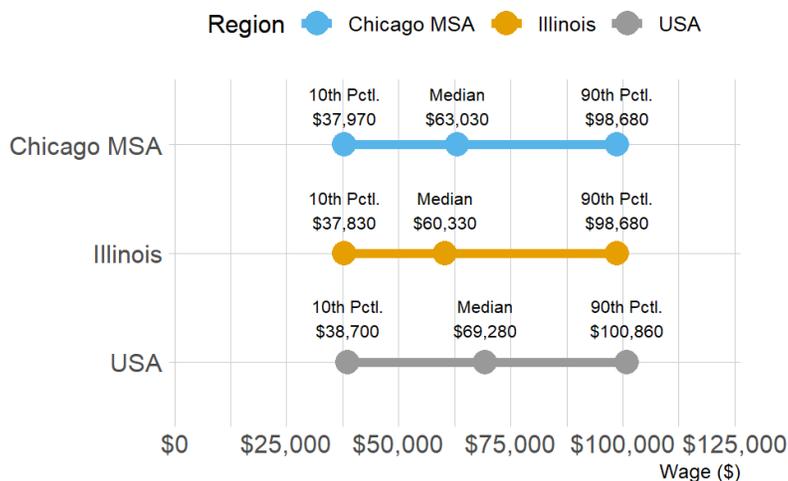
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Apache HTTP Server, Autodesk AutoCAD, C++, Dassault Systemes CATIA, Enterprise resource planning ERP software, Linux, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 300 | 0.53 | \$63,030 |
| Illinois | 440 | 0.59 | \$60,330 |
| USA | 18,910 | - | \$69,280 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Test and troubleshoot instruments, components, and assemblies, using circuit testers, oscilloscopes, or voltmeters. | Hourly or more | 90 |
| Keep records of maintenance and repair work. | Daily | 89 |
| Install electrical and electronic components, assemblies, and systems in aircraft, using hand tools, power tools, or soldering irons. | Hourly or more | 88 |
| Adjust, repair, or replace malfunctioning components or assemblies, using hand tools or soldering irons. | Several times daily | 88 |
| Set up and operate ground support and test equipment to perform functional flight tests of electrical and electronic systems. | Daily | 87 |

Electric Motor, Power Tool, and Related Repairers

49-2092.00



Description: Repair, maintain, or install electric motors, wiring, or switches.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Electric Motor Mechanic, Electric Motor Repairman, Electric Motor Winder

Job Zone

Title: 3 - Medium Preparation Needed

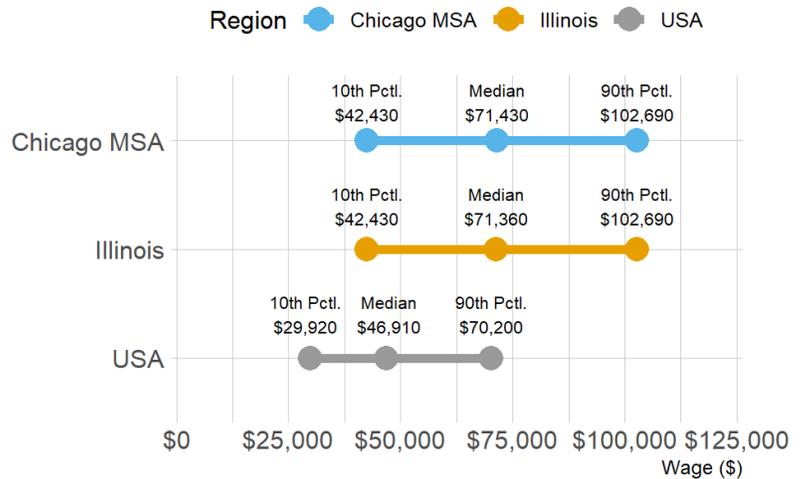
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Microsoft Access, Microsoft Office Suite, Python, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 730 | 1.52 | \$71,430 |
| Illinois | 840 | 1.33 | \$71,360 |
| USA | 15,880 | - | \$46,910 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Inspect and test equipment to locate damage or worn parts and diagnose malfunctions, or read work orders or schematic drawings to determine required repairs. | Hourly or more | 91 |
| Reassemble repaired electric motors to specified requirements and ratings, using hand tools and electrical meters. | Several times daily | 85 |
| Measure velocity, horsepower, revolutions per minute (rpm), amperage, circuitry, and voltage of units or parts to diagnose problems, using ammeters, voltmeters, wattmeters, and other testing devices. | Several times daily | 84 |
| Repair and rebuild defective mechanical parts in electric motors, generators, and related equipment, using hand tools and power tools. | Hourly or more | 84 |
| Lift units or parts such as motors or generators, using cranes or chain hoists, or signal crane operators to lift heavy parts or subassemblies. | Several times daily | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Electrical and Electronics Installers and Repairers, Transportation Equipment

49-2093.00



Description: Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Critical Systems Technician, Electronic Bench Technician

Job Zone

Title: 3 - Medium Preparation Needed

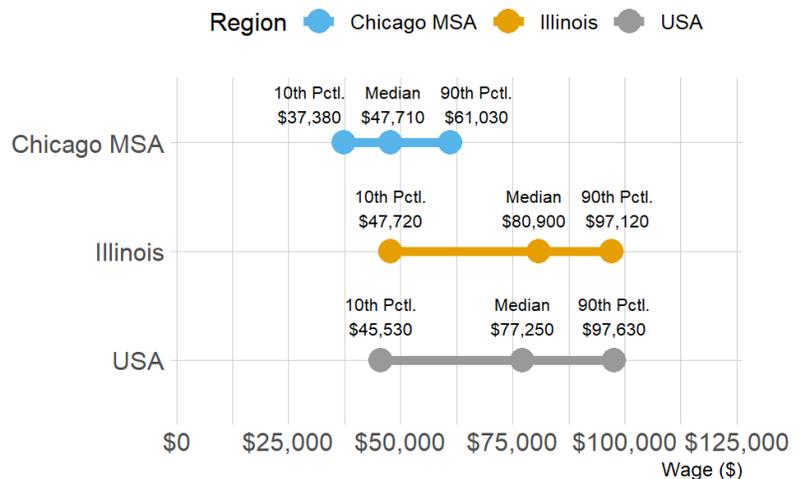
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe Illustrator, Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop, Autodesk AutoCAD

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$47,710 |
| Illinois | 670 | 1.56 | \$80,900 |
| USA | 10,710 | - | \$77,250 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|--|-------------------|-------------------------|
| Inspect and test electrical systems and equipment to locate and diagnose malfunctions, using visual inspections, testing devices, and computer software. | Daily | 81 |
| Reassemble and test equipment after repairs. | Daily | 78 |
| Adjust, repair, or replace defective wiring and relays in ignition, lighting, air-conditioning, and safety control systems, using electrician's tools. | More than monthly | 76 |
| Splice wires with knives or cutting pliers, and solder connections to fixtures, outlets, and equipment. | More than weekly | 75 |
| Locate and remove or repair circuit defects such as blown fuses or malfunctioning transistors. | More than monthly | 74 |

Inspect and test electrical systems and equipment to locate and diagnose malfunctions, using visual inspections, testing devices, and computer software. **Frequency:** Daily **Importance:** 81

Reassemble and test equipment after repairs. **Frequency:** Daily **Importance:** 78

Adjust, repair, or replace defective wiring and relays in ignition, lighting, air-conditioning, and safety control systems, using electrician's tools. **Frequency:** More than monthly **Importance:** 76

Splice wires with knives or cutting pliers, and solder connections to fixtures, outlets, and equipment. **Frequency:** More than weekly **Importance:** 75

Locate and remove or repair circuit defects such as blown fuses or malfunctioning transistors. **Frequency:** More than monthly **Importance:** 74



Electrical and Electronics Repairers, Commercial and Industrial Equipment

49-2094.00



Description: Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Control Technician, E and I Mechanic (Electrical and Instrument Mechanic)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

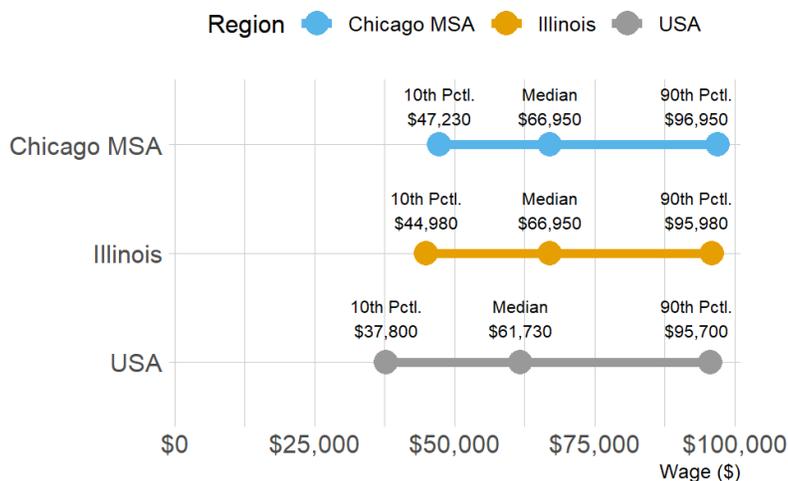
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: PMMI Mechatronics: Industrial Electricity 1

Hot Technologies: Autodesk AutoCAD, Computer aided design CAD software, Database software, Microsoft Office Suite, SAP Maintenance

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 670 | 0.44 | \$66,950 |
| Illinois | 970 | 0.48 | \$66,950 |
| USA | 50,780 | – | \$61,730 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Test faulty equipment to diagnose malfunctions, using test equipment or software, and applying knowledge of the functional operation of electronic units and systems.

Daily

86

Set up and test industrial equipment to ensure that it functions properly.

More than yearly

85

Maintain equipment logs that record performance problems, repairs, calibrations, or tests.

Daily

85

Inspect components of industrial equipment for accurate assembly and installation or for defects, such as loose connections or frayed wires.

Daily

83

Operate equipment to demonstrate proper use or to analyze malfunctions.

Daily

82

Electrical and Electronics Repairers, Powerhouse, Substation, and Relay

49-2095.00



Description: Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Electrical and Instrumentation Technician (E and I Technician)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

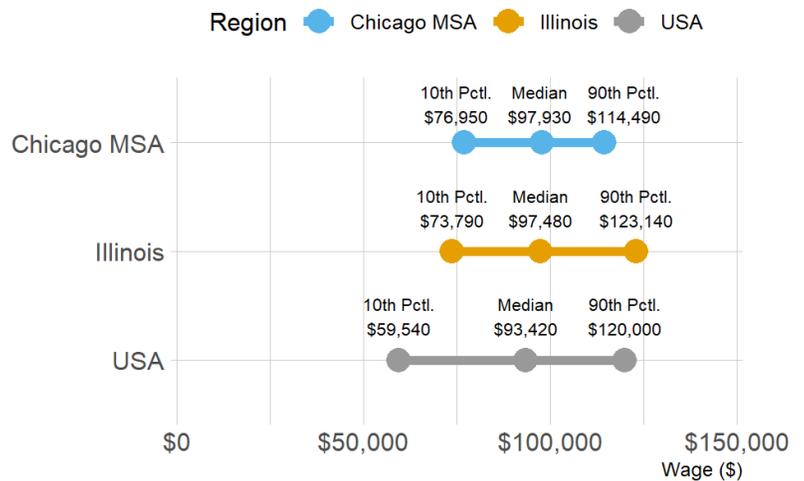
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Instrumentation Certification, Cable Splicing Certification

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 220 | 0.32 | \$97,930 |
| Illinois | 390 | 0.43 | \$97,480 |
| USA | 22,490 | - | \$93,420 |



Top 5 Core Tasks According to Current Job Holders

**Importance
Frequency (out of 100)**

| | | |
|--|---------------------|----|
| Inspect and test equipment and circuits to identify malfunctions or defects, using wiring diagrams and testing devices such as ohmmeters, voltmeters, or ammeters. | Daily | 90 |
| Consult manuals, schematics, wiring diagrams, and engineering personnel to troubleshoot and solve equipment problems and to determine optimum equipment functioning. | Several times daily | 88 |
| Prepare and maintain records detailing tests, repairs, and maintenance. | Daily | 88 |
| Analyze test data to diagnose malfunctions, to determine performance characteristics of systems, or to evaluate effects of system modifications. | Daily | 85 |
| Notify facility personnel of equipment shutdowns. | Daily | 84 |

Audiovisual Equipment Installers and Repairers

49-2097.00



Description: Install, repair, or adjust audio or television receivers, stereo systems, camcorders, video systems, or other electronic entertainment equipment in homes or other venues. May perform routine maintenance.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Electronic Technician, Field Service Representative

Job Zone

Title: 3 - Medium Preparation Needed

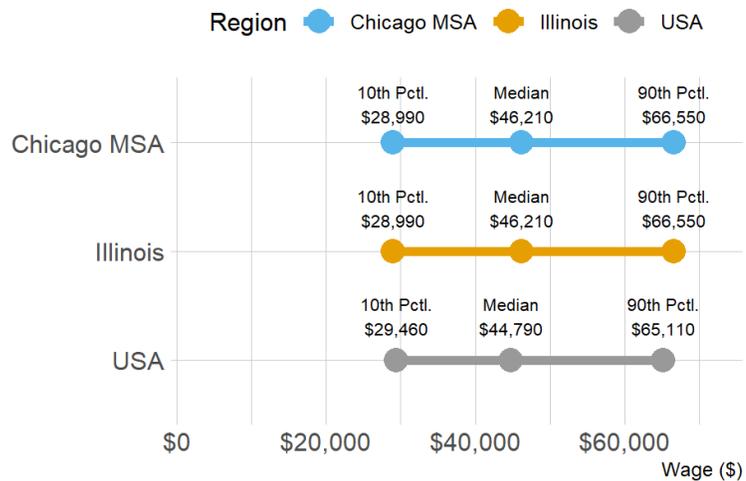
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 800 | 1.23 | \$46,210 |
| Illinois | 960 | 1.12 | \$46,210 |
| USA | 21,540 | - | \$44,790 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|---------------------|----|
| Disassemble entertainment equipment and repair or replace loose, worn, or defective components and wiring, using hand tools and soldering irons. | Several times daily | 85 |
| Install, service, and repair electronic equipment or instruments such as televisions, radios, and videocassette recorders. | Daily | 80 |
| Calibrate and test equipment, and locate circuit and component faults, using hand and power tools and measuring and testing instruments such as resistance meters and oscilloscopes. | Daily | 79 |
| Confer with customers to determine the nature of problems or to explain repairs. | Daily | 78 |
| Tune or adjust equipment and instruments to obtain optimum visual or auditory reception, according to specifications, manuals, and drawings. | Daily | 77 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Security and Fire Alarm Systems Installers

49-2098.00



Description: Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Alarm Technician, Fire Alarm Technician, Home Security Alarm Installer

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

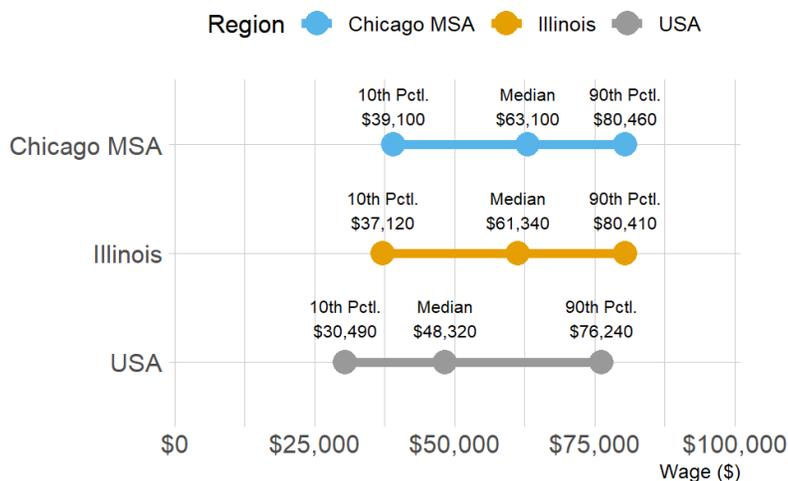
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Alarm Technician - Level I, UL Lightning Protection Journeyman Certification, Certified Fire Alarm ITM Specialist for Facility Managers

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,050 | 0.45 | \$63,100 |
| Illinois | 1,430 | 0.46 | \$61,340 |
| USA | 77,420 | - | \$48,320 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|------------------|----|
| Mount and fasten control panels, door and window contacts, sensors, or video cameras, and attach electrical and telephone wiring to connect components. | Daily | 89 |
| Install, maintain, or repair security systems, alarm devices, or related equipment, following blueprints of electrical layouts and building plans. | Daily | 89 |
| Demonstrate systems for customers and explain details, such as the causes and consequences of false alarms. | More than weekly | 89 |
| Test and repair circuits and sensors, following wiring and system specifications. | Daily | 88 |
| Examine systems to locate problems, such as loose connections or broken insulation. | Daily | 87 |



Aircraft Mechanics and Service Technicians

49-3011.00



Description: Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aircraft Maintenance Technician (Aircraft Maintenance Tech)

Job Zone

Title: 3 - Medium Preparation Needed

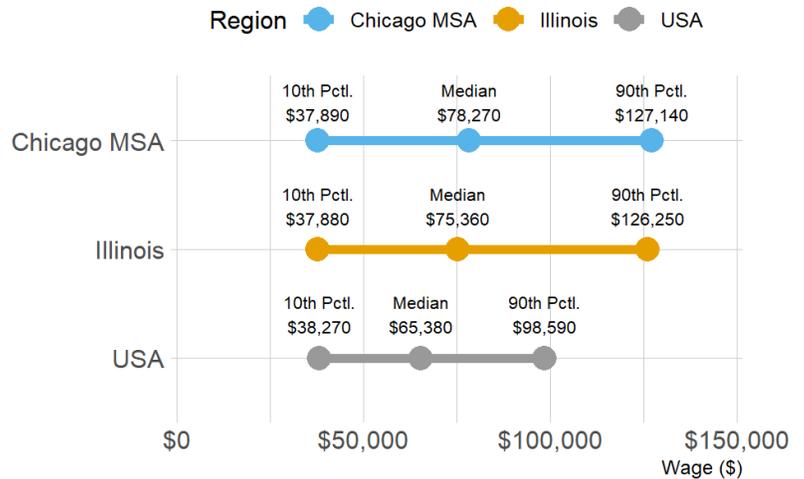
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, SAP business and customer relations management software, Tracware AeroTrac

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,480 | 0.66 | \$78,270 |
| Illinois | 3,520 | 0.70 | \$75,360 |
| USA | 125,440 | - | \$65,380 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|---|------------------|----|
| Examine and inspect aircraft components, including landing gear, hydraulic systems, and deicers to locate cracks, breaks, leaks, or other problems. | More than weekly | 91 |
| Inspect completed work to certify that maintenance meets standards and that aircraft are ready for operation. | Daily | 90 |
| Conduct routine and special inspections as required by regulations. | More than weekly | 90 |
| Read and interpret maintenance manuals, service bulletins, and other specifications to determine the feasibility and method of repairing or replacing malfunctioning or damaged components. | Daily | 89 |
| Maintain repair logs, documenting all preventive and corrective aircraft maintenance. | More than weekly | 89 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Bus and Truck Mechanics and Diesel Engine

Specialists

49-3031.00



Description: Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bus Mechanic, Diesel Mechanic, Diesel Technician

Job Zone

Title: 3 - Medium Preparation Needed

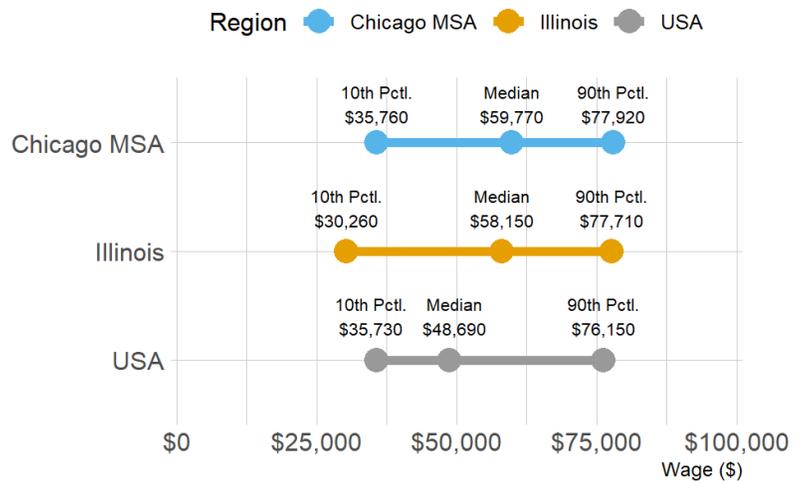
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Computer aided design CAD software, Dassault Systemes CATIA, Dassault Systemes SolidWorks, Database software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,600 | 0.84 | \$59,770 |
| Illinois | 8,090 | 0.78 | \$58,150 |
| USA | 261,420 | – | \$48,690 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Inspect brake systems, steering mechanisms, wheel bearings, and other important parts to ensure that they are in proper operating condition.

Daily

90

Use handtools, such as screwdrivers, pliers, wrenches, pressure gauges, or precision instruments, as well as power tools, such as pneumatic wrenches, lathes, welding equipment, or jacks and hoists.

Hourly or more

86

Adjust and reline brakes, align wheels, tighten bolts and screws, and reassemble equipment.

Daily

85

Examine and adjust protective guards, loose bolts, and specified safety devices.

Daily

84

Perform routine maintenance such as changing oil, checking batteries, and lubricating equipment and machinery.

Daily

83

Mobile Heavy Equipment Mechanics, Except Engines

49-3042.00



Description: Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and mining.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Construction Equipment Mechanic, Equipment Mechanic, Equipment Technician

Job Zone

Title: 3 - Medium Preparation Needed

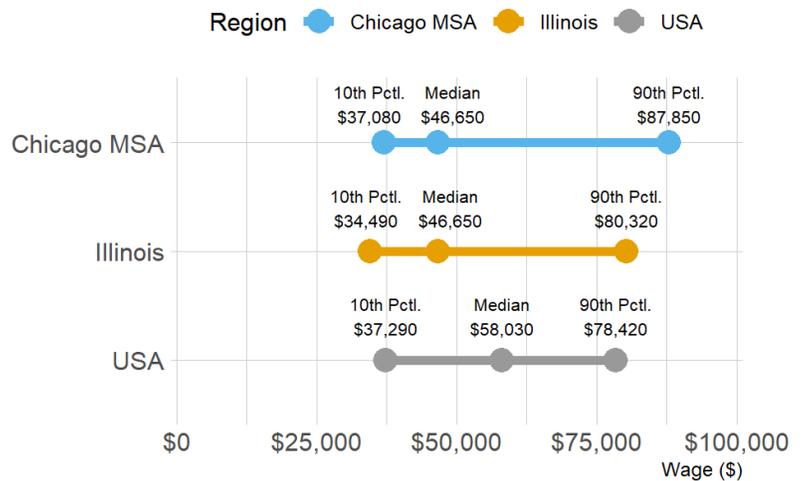
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Database software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,520 | 0.58 | \$46,650 |
| Illinois | 3,570 | 0.62 | \$46,650 |
| USA | 145,230 | - | \$58,030 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
| Repair and replace damaged or worn parts. | Daily | 89 |
| Test mechanical products and equipment after repair or assembly to ensure proper performance and compliance with manufacturers' specifications. | Daily | 88 |
| Operate and inspect machines or heavy equipment to diagnose defects. | Daily | 87 |
| Dismantle and reassemble heavy equipment using hoists and hand tools. | Daily | 85 |
| Read and understand operating manuals, blueprints, and technical drawings. | Daily | 85 |

Rail Car Repairers

49-3043.00



Description: Diagnose, adjust, repair, or overhaul railroad rolling stock, mine cars, or mass transit rail cars.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Freight Maintenance Specialist, Locomotive Repairman

Job Zone

Title: 2 - Some Preparation Needed

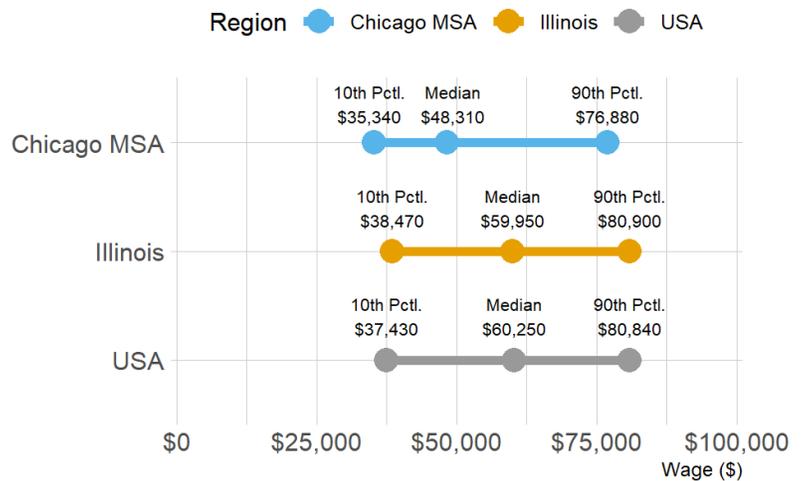
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,490 | 2.17 | \$48,310 |
| Illinois | 3,010 | 3.31 | \$59,950 |
| USA | 22,800 | – | \$60,250 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
| Record conditions of cars, and repair and maintenance work performed or to be performed. | Daily | 85 |
| Inspect components such as bearings, seals, gaskets, wheels, and coupler assemblies to determine if repairs are needed. | Daily | 84 |
| Repair or replace defective or worn parts such as bearings, pistons, and gears, using hand tools, torque wrenches, power tools, and welding equipment. | Daily | 83 |
| Inspect the interior and exterior of rail cars coming into rail yards to identify defects and to determine the extent of wear and damage. | Daily | 81 |
| Remove locomotives, car mechanical units, or other components, using pneumatic hoists and jacks, pinch bars, hand tools, and cutting torches. | Daily | 80 |

Motorboat Mechanics and Service Technicians

49-3051.00



Description: Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Boat Mechanic, Boat Motor Mechanic, Boat Rigger

Job Zone

Title: 3 - Medium Preparation Needed

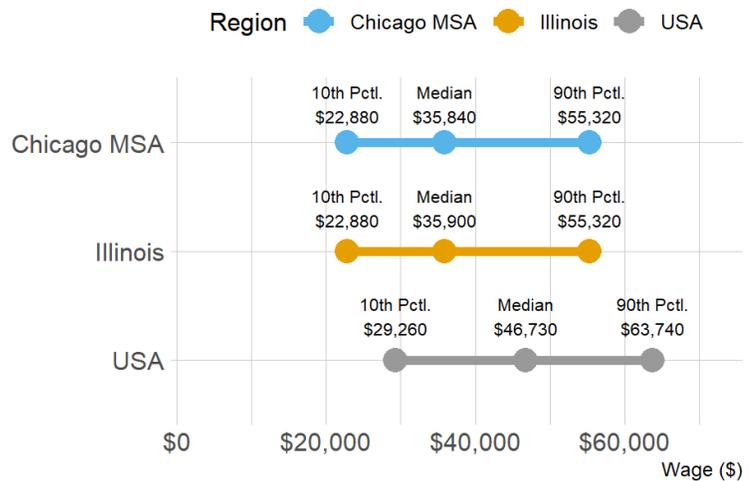
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Facebook, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 430 | 0.62 | \$35,840 |
| Illinois | 560 | 0.61 | \$35,900 |
| USA | 23,080 | - | \$46,730 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Start motors and monitor performance for signs of malfunctioning, such as smoke, excessive vibration, or misfiring. | Daily | 85 |
| Mount motors to boats, and operate boats at various speeds on waterways to conduct operational tests. | More than monthly | 82 |
| Document inspection and test results and work performed or to be performed. | Daily | 82 |
| Replace parts, such as gears, magneto points, piston rings, or spark plugs, and reassemble engines. | Daily | 81 |
| Repair engine mechanical equipment, such as power tilts, bilge pumps, or power take-offs. | More than weekly | 81 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Recreational Vehicle Service Technicians

49-3092.00



Description: Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Hitch Technician

Job Zone

Title: 2 - Some Preparation Needed

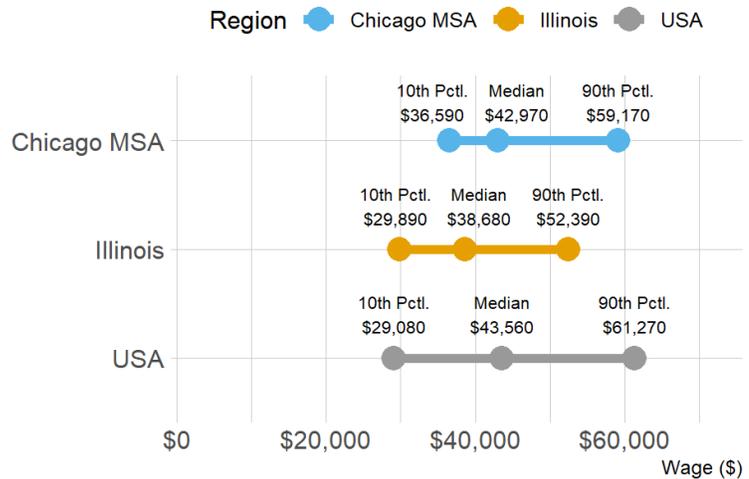
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Facebook, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 80 | 0.16 | \$42,970 |
| Illinois | 90 | 0.14 | \$38,680 |
| USA | 16,030 | - | \$43,560 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Explain proper operation of vehicle systems to customers. | More than weekly | 88 |
| Locate and repair frayed wiring, broken connections, or incorrect wiring, using ohmmeters, soldering irons, tape, or hand tools. | More than weekly | 85 |
| Repair plumbing or propane gas lines, using caulking compounds and plastic or copper pipe. | More than weekly | 84 |
| Confer with customers, read work orders, or examine vehicles needing repair to determine the nature and extent of damage. | Daily | 84 |
| Examine or test operation of parts or systems to ensure completeness of repairs. | Daily | 83 |

Mechanical Door Repairers

49-9011.00



Description: Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Commercial Door Installer, Commercial Installer, Door Installer

Job Zone

Title: 2 - Some Preparation Needed

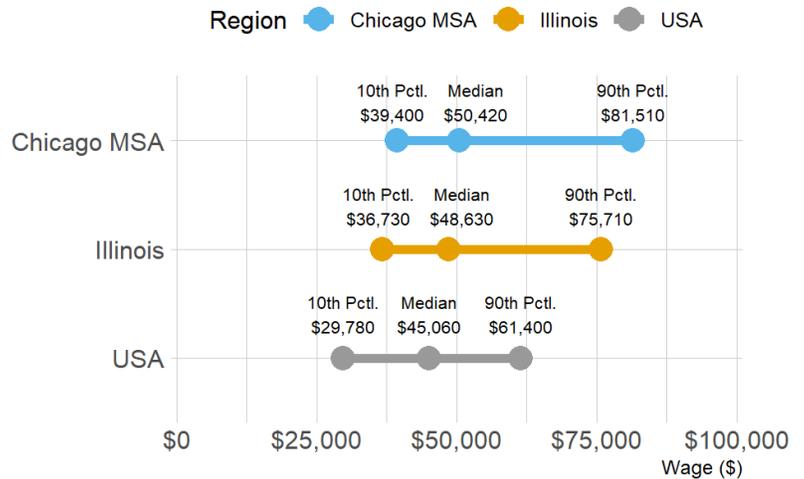
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Facebook, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 730 | 1.05 | \$50,420 |
| Illinois | 1,030 | 1.10 | \$48,630 |
| USA | 23,300 | - | \$45,060 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Wind large springs with upward motion of arm.

Daily 84

Adjust doors to open or close with the correct amount of effort, or make simple adjustments to electric openers.

Daily 83

Complete required paperwork, such as work orders, according to services performed or required.

Daily 81

Repair or replace worn or broken door parts, using hand tools.

Daily 81

Carry springs to tops of doors, using ladders or scaffolding, and attach springs to tracks to install spring systems.

Daily 81



Control and Valve Installers and Repairers, Except Mechanical Door

49-9012.00



Description: Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Control Valve Mechanic, Control Valve Technician, Electric Meter Technician

Job Zone

Title: 3 - Medium Preparation Needed

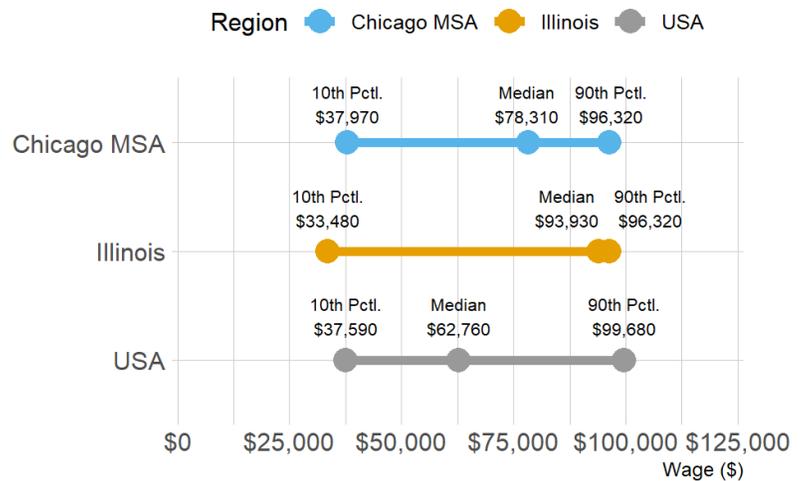
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Microsoft Access, Microsoft Office Suite, Microsoft SharePoint, Oracle Primavera Enterprise Project Portfolio Management

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 500 | 0.37 | \$78,310 |
| Illinois | 420 | 0.24 | \$93,930 |
| USA | 44,870 | – | \$62,760 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|-------|----|
| Record maintenance information, including test results, material usage, and repairs made. | Daily | 83 |
|---|-------|----|

| | | |
|--|-------|----|
| Disassemble and repair mechanical control devices or valves, such as regulators, thermostats, or hydrants, using power tools, hand tools, and cutting torches. | Daily | 77 |
|--|-------|----|

| | | |
|---|-------------------|----|
| Lubricate wearing surfaces of mechanical parts, using oils or other lubricants. | More than monthly | 75 |
|---|-------------------|----|

Heating, Air Conditioning, and Refrigeration Mechanics and Installers

49-9021.00



Description: Install or repair heating, central air conditioning, HVAC, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: A/C Tech (Air Conditioning Technician), HVAC Installer (Heating

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

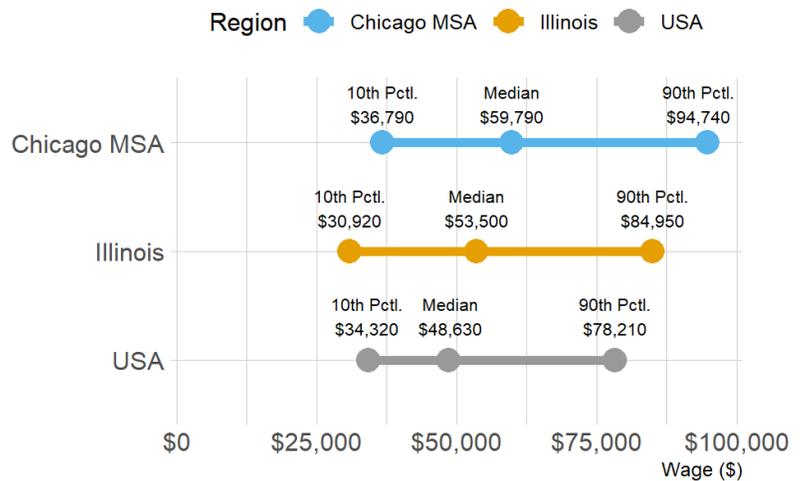
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: EPA Section 608 Certification - Refrigerant Handling, Air Leakage Control Installer, Certified Industrial Refrigeration Operator

Hot Technologies: Adobe Systems Adobe Acrobat, Autodesk AutoCAD, Computer aided design CAD software, Database software, HVAC tools software, IBM Notes

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,770 | 0.63 | \$59,790 |
| Illinois | 9,360 | 0.66 | \$53,500 |
| USA | 356,960 | - | \$48,630 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Test electrical circuits or components for continuity, using electrical test equipment. | Daily | 89 |
| Repair or replace defective equipment, components, or wiring. | Daily | 88 |
| Discuss heating or cooling system malfunctions with users to isolate problems or to verify that repairs corrected malfunctions. | Daily | 87 |
| Connect heating or air conditioning equipment to fuel, water, or refrigerant source to form complete circuit. | More than monthly | 84 |
| Install, connect, or adjust thermostats, humidistats, or timers. | Daily | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Industrial Machinery Mechanics

49-9041.00



Description: Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Industrial Machinery Mechanic, Industrial Mechanic, Loom Fixer

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

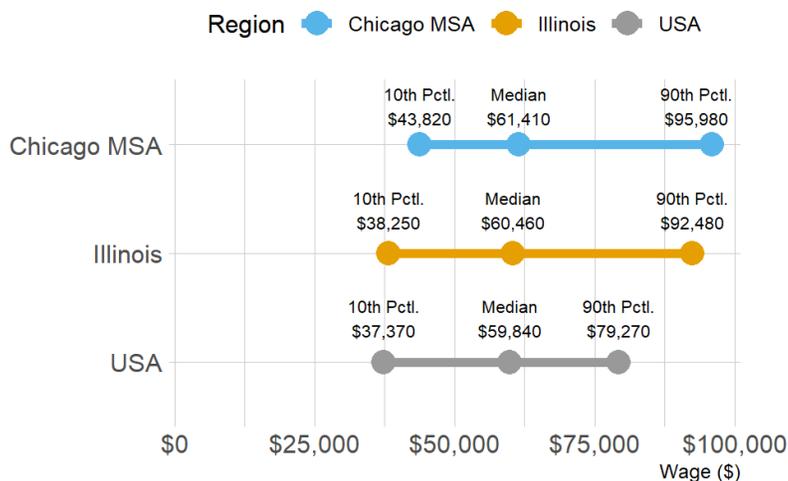
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Mechatronics: Fluid Power 1

Hot Technologies: Computer aided design CAD software, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,510 | 0.58 | \$61,410 |
| Illinois | 8,730 | 0.59 | \$60,460 |
| USA | 373,090 | – | \$59,840 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|------------------|-------------------------|
| Repair or maintain the operating condition of industrial production or processing machinery or equipment. | Daily | 86 |
| Repair or replace broken or malfunctioning components of machinery or equipment. | Daily | 85 |
| Disassemble machinery or equipment to remove parts and make repairs. | More than weekly | 83 |
| Clean, lubricate, or adjust parts, equipment, or machinery. | Daily | 83 |
| Examine parts for defects, such as breakage or excessive wear. | Daily | 82 |

Maintenance Workers, Machinery

49-9043.00



Description: Lubricate machinery, change parts, or perform other routine machinery maintenance.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Lubricator, Machine Repairer, Maintainer

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

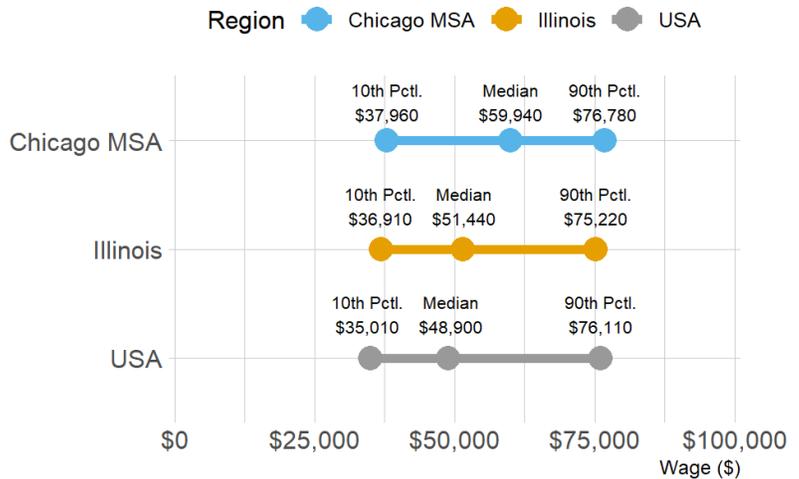
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Level II Machine Lubricant Analyst

Hot Technologies: Database software, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 500 | 0.29 | \$59,940 |
| Illinois | 650 | 0.28 | \$51,440 |
| USA | 57,660 | - | \$48,900 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|------------------|-------------------------|
| Start machines and observe mechanical operation to determine efficiency and to detect problems. | Daily | 82 |
| Read work orders and specifications to determine machines and equipment requiring repair or maintenance. | Daily | 81 |
| Reassemble machines after the completion of repair or maintenance work. | Daily | 80 |
| Inspect or test damaged machine parts, and mark defective areas or advise supervisors of repair needs. | Daily | 80 |
| Dismantle machines and remove parts for repair, using hand tools, chain falls, jacks, cranes, or hoists. | More than weekly | 80 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Millwrights

49-9044.00



Description: Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Maintenance Millwright, Millwright, Millwright Business Representative

Job Zone

Title: 2 - Some Preparation Needed

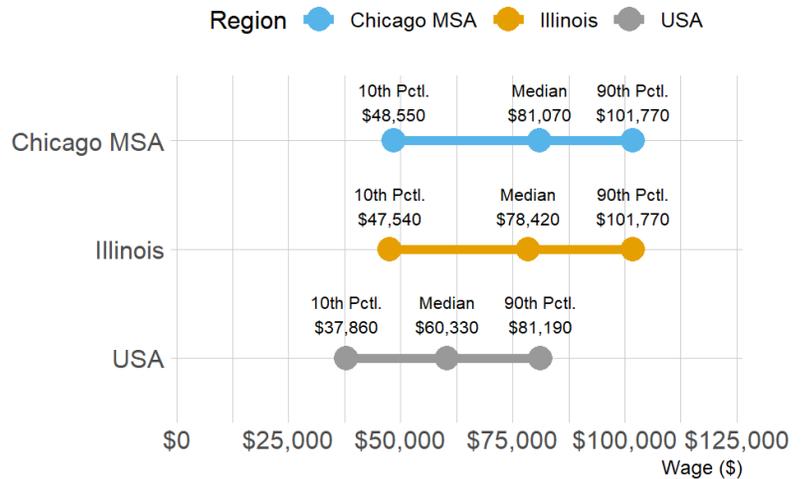
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Computer aided design CAD software, Dassault Systemes SolidWorks, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,570 | 1.33 | \$81,070 |
| Illinois | 2,250 | 1.44 | \$78,420 |
| USA | 39,240 | - | \$60,330 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Insert shims, adjust tension on nuts and bolts, or position parts, using hand tools and measuring instruments, to set specified clearances between moving and stationary parts.

Daily 95

Level bedplate and establish centerline, using straightedge, levels, and transit.

More than monthly 93

Align machines or equipment, using hoists, jacks, hand tools, squares, rules, micrometers, lasers, or plumb bobs.

Daily 93

Assemble and install equipment, using hand tools and power tools.

Daily 90

Signal crane operator to lower basic assembly units to bedplate, and align unit to centerline.

Daily 90

Electrical Power-Line Installers and Repairers

49-9051.00



Description: Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Class Gloving Electrical Lineman, Class Rubber Gloving Lineman

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

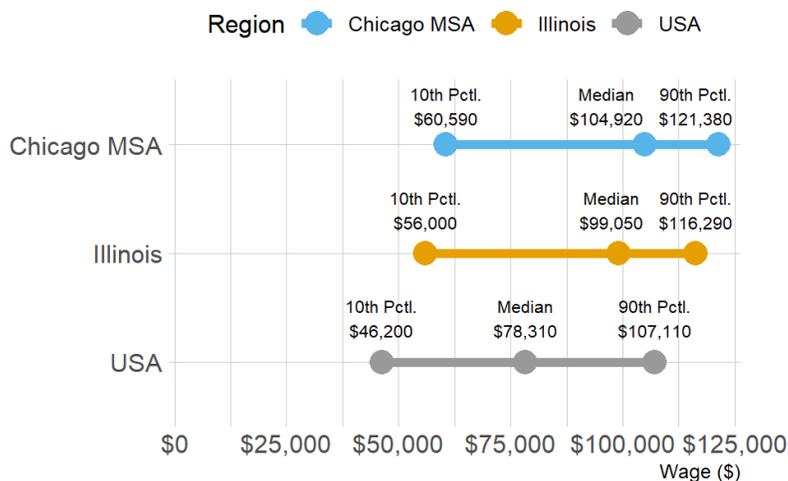
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Instrumentation Certification, Cable Splicing Certification

Hot Technologies: Computer aided design and drafting CADD software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,370 | 0.90 | \$104,920 |
| Illinois | 5,590 | 1.13 | \$99,050 |
| USA | 123,940 | - | \$78,310 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Adhere to safety practices and procedures, such as checking equipment regularly and erecting barriers around work areas.

Hourly or more **95**

Drive vehicles equipped with tools and materials to job sites.

Hourly or more **95**

Open switches or attach grounding devices to remove electrical hazards from disturbed or fallen lines or to facilitate repairs.

More than weekly **94**

Climb poles or use truck-mounted buckets to access equipment.

Daily **91**

Install, maintain, and repair electrical distribution and transmission systems, including conduits, cables, wires, and related equipment, such as transformers, circuit breakers, and switches.

Daily **90**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Telecommunications Line Installers and Repairers

49-9052.00



Description: Install and repair telecommunications cable, including fiber optics.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Cable Splicer, Cable Technician

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

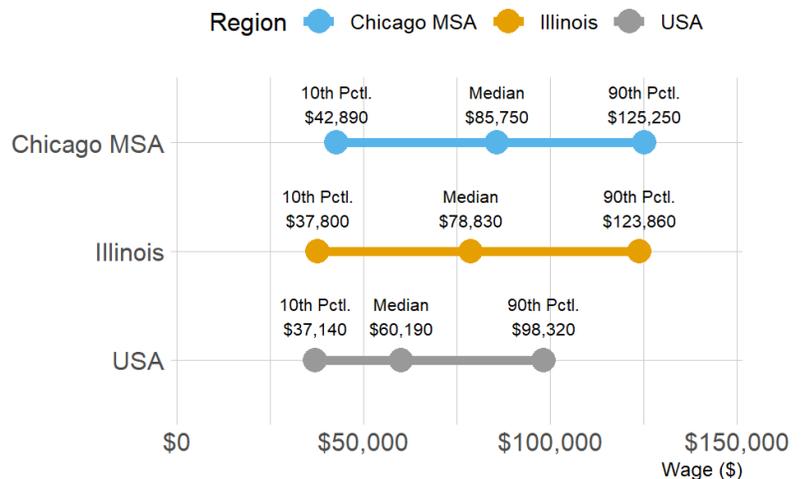
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Inside Electrical Craft Certification, Fiber To The Antenna, Data Cabling Installer, Cable Splicing Certification

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite, Voice over internet protocol VoIP system software, Workforce management system software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,260 | 0.41 | \$85,750 |
| Illinois | 1,930 | 0.48 | \$78,830 |
| USA | 101,530 | - | \$60,190 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Set up service for customers, installing, connecting, testing, or adjusting equipment.

Hourly or more
88

Travel to customers' premises to install, maintain, or repair audio and visual electronic reception equipment or accessories.

Several times daily
86

Measure signal strength at utility poles, using electronic test equipment.

Daily
85

Inspect or test lines or cables, recording and analyzing test results, to assess transmission characteristics and locate faults or malfunctions.

Several times daily
84

Splice cables, using hand tools, epoxy, or mechanical equipment.

Hourly or more
84



Maintenance and Repair Workers, General

49-9071.00



Description: Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of a building in repair.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Building Mechanic, Equipment Engineering Technician, Facilities Technician

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

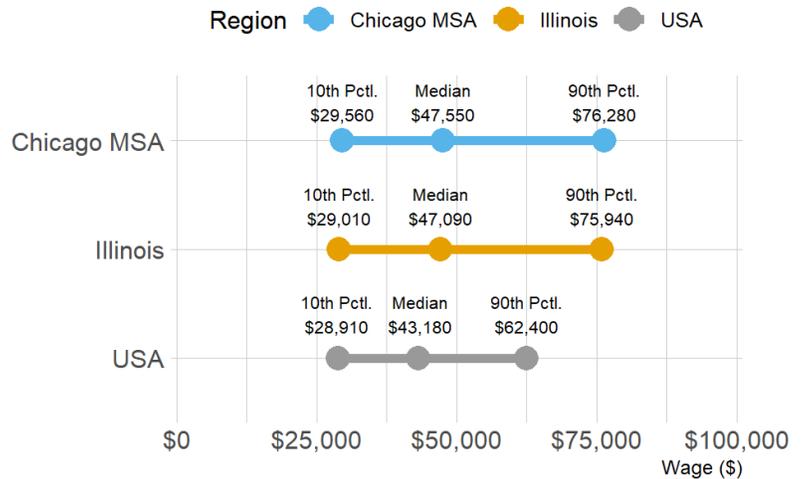
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Apartment Maintenance Technician, Certified Building Operator, Certified Maintenance Employee

Hot Technologies: Apple macOS, Autodesk AutoCAD, Computer aided design and drafting software CADD, Dassault Systemes CATIA, Database software, Facebook, Google Docs

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 45,690 | 1.07 | \$47,550 |
| Illinois | 64,690 | 1.14 | \$47,090 |
| USA | 1,416,740 | - | \$43,180 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Perform routine maintenance, such as inspecting drives, motors, or belts, checking fluid levels, replacing filters, or doing other preventive maintenance actions.

Daily 85

Inspect, operate, or test machinery or equipment to diagnose machine malfunctions.

More than weekly 81

Adjust functional parts of devices or control instruments, using hand tools, levels, plumb bobs, or straightedges.

Daily 78

Repair machines, equipment, or structures, using tools such as hammers, hoists, saws, drills, wrenches, or equipment such as precision measuring instruments or electrical or electronic testing devices.

Daily 77

Order parts, supplies, or equipment from catalogs or suppliers.

Daily 77

Wind Turbine Service Technicians

49-9081.00



Description: Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Field Service Technician, Renewable Energy Technician, Service Technician

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

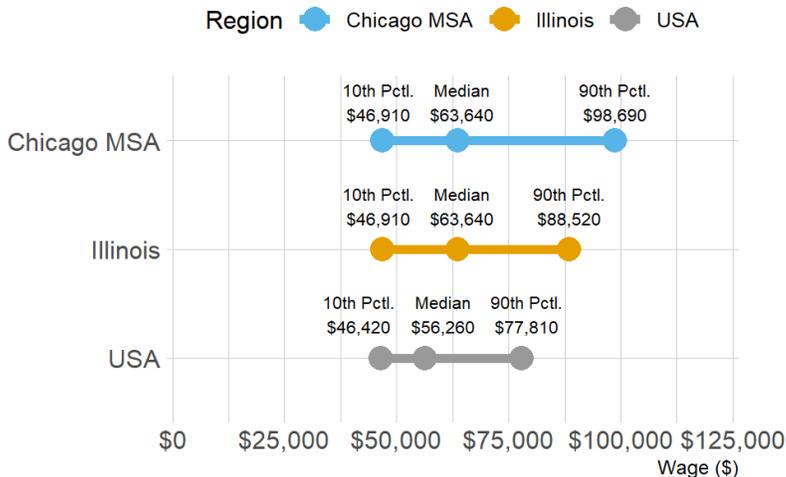
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Small Wind Associate

Hot Technologies: Microsoft Office Suite, SAP business and customer relations management software, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 200 | 0.67 | \$63,640 |
| Illinois | 350 | 0.86 | \$63,640 |
| USA | 10,100 | - | \$56,260 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|---|---------------------|----|
| Troubleshoot or repair mechanical, hydraulic, or electrical malfunctions related to variable pitch systems, variable speed control systems, converter systems, or related components. | Daily | 95 |
| Perform routine maintenance on wind turbine equipment, underground transmission systems, wind fields substations, or fiber optic sensing and control systems. | Daily | 92 |
| Diagnose problems involving wind turbine generators or control systems. | Daily | 91 |
| Test electrical components of wind systems with devices, such as voltage testers, multimeters, oscilloscopes, infrared testers, or fiber optic equipment. | Daily | 91 |
| Climb wind turbine towers to inspect, maintain, or repair equipment. | Several times daily | 90 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Commercial Divers

49-9092.00



Description: Work below surface of water, using surface-supplied air or scuba equipment to inspect, repair, remove, or install equipment and structures.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Commercial Diver, Diver, Diver Tender

Job Zone

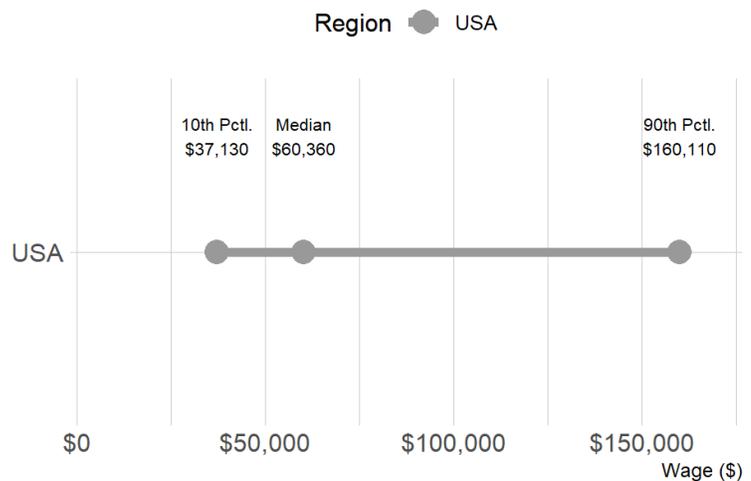
Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 2,670 | - | \$60,360 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|----------------|----|
| Take appropriate safety precautions, such as monitoring dive lengths and depths and registering with authorities before diving expeditions begin. | Hourly or more | 96 |
| Check and maintain diving equipment, such as helmets, masks, air tanks, harnesses, or gauges. | Daily | 95 |
| Communicate with workers on the surface while underwater, using signal lines or telephones. | Hourly or more | 92 |
| Descend into water with the aid of diver helpers, using scuba gear or diving suits. | Daily | 84 |
| Obtain information about diving tasks and environmental conditions. | Daily | 84 |

Riggers

49-9096.00



Description: Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Gantry Rigger, Hand Rigger, Heavy Lift Rigger

Job Zone

Title: 2 - Some Preparation Needed

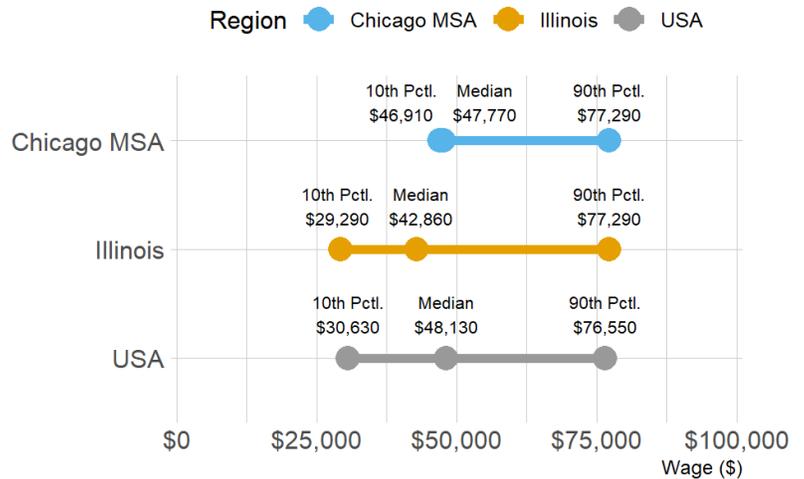
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 130 | 0.24 | \$47,770 |
| Illinois | 150 | 0.21 | \$42,860 |
| USA | 17,980 | - | \$48,130 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|-------------------|----|
| Test rigging to ensure safety and reliability. | Hourly or more | 93 |
| Signal or verbally direct workers engaged in hoisting and moving loads to ensure safety of workers and materials. | Daily | 92 |
| Control movement of heavy equipment through narrow openings or confined spaces, using chainfalls, gin poles, gallows frames, and other equipment. | More than monthly | 87 |
| Select gear, such as cables, pulleys, and winches, according to load weights and sizes, facilities, and work schedules. | Daily | 85 |
| Tilt, dip, and turn suspended loads to maneuver over, under, or around obstacles, using multi-point suspension techniques. | Daily | 85 |

Signal and Track Switch Repairers

49-9097.00



Description: Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Railroad Signal Maintainer, Signal and Communications Maintainer

Job Zone

Title: 3 - Medium Preparation Needed

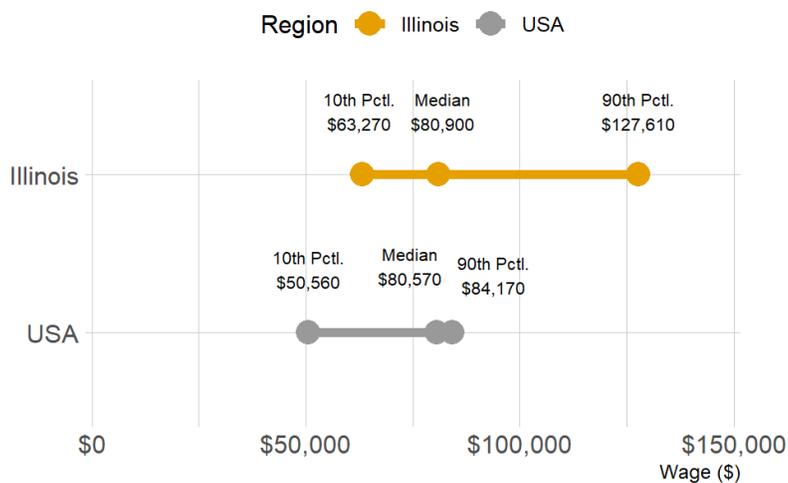
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 640 | 1.99 | \$80,900 |
| USA | 8,090 | - | \$80,570 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
|--|-----------|-------------------------|

| | | |
|---|-------|----|
| Inspect and test operation, mechanical parts, and circuitry of gate crossings, signals, and signal equipment such as interlocks and hotbox detectors. | Daily | 90 |
| Inspect electrical units of railroad grade crossing gates and repair loose bolts and defective electrical connections and parts. | Daily | 85 |
| Test and repair track circuits. | Daily | 83 |
| Drive motor vehicles to job sites. | Daily | 82 |
| Install, inspect, maintain, and repair various railroad service equipment on the road or in the shop, including railroad signal systems. | Daily | 81 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Helpers--Installation, Maintenance, and Repair Workers

49-9098.00



Description: Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: HVAC Helper (Heating, Ventilation, Air Conditioning Helper)

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

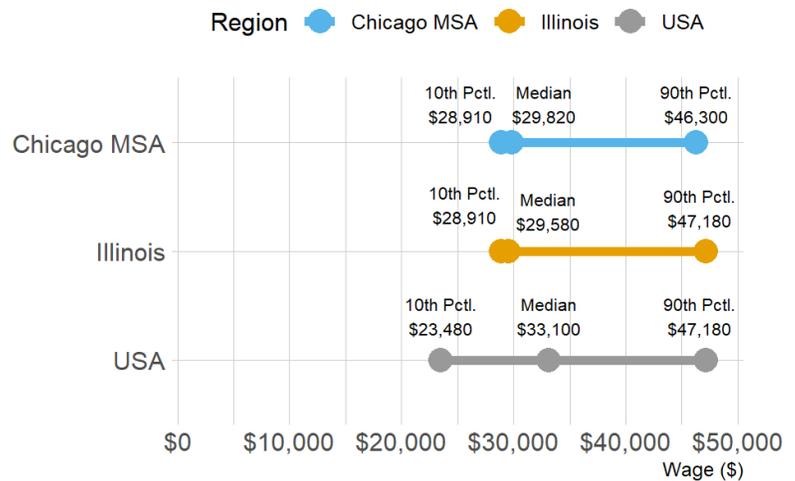
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Electrical Safety Worker, Universal Design Certified Remodeler, Heat Pump Service Certification, Heat Pump Installer Certification

Hot Technologies: Computer aided design CAD software, HVAC tools software, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,120 | 0.42 | \$29,820 |
| Illinois | 1,260 | 0.36 | \$29,580 |
| USA | 88,480 | – | \$33,100 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Examine and test machinery, equipment, components, and parts for defects to ensure proper functioning.

Daily

81

Install or replace machinery, equipment, and new or replacement parts and instruments, using hand or power tools.

Daily

81

Tend and observe equipment and machinery to verify efficient and safe operation.

Daily

79

Adjust, connect, or disconnect wiring, piping, tubing, and other parts, using hand or power tools.

Daily

78

Clean or lubricate vehicles, machinery, equipment, instruments, tools, work areas, and other objects, using hand tools, power tools, and cleaning equipment.

More than weekly

77

First-Line Supervisors of Production and Operating Workers

51-1011.00



Description: Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Assembly Supervisor, Line Supervisor, Manufacturing Supervisor

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

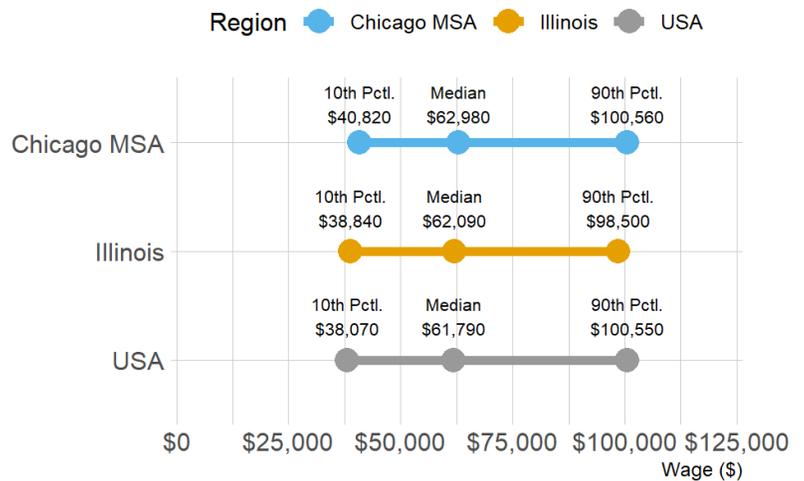
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Milling; Programming Setup & Operations, Certified Associate Welding Inspector, Certified Welding Inspector

Hot Technologies: Aptean Made2Manage, Autodesk AutoCAD, Bowen & Groves M1 ERP, Capterra Enterprise Resource Planning, Computer aided design CAD software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 20,350 | 1.08 | \$62,980 |
| Illinois | 27,380 | 1.09 | \$62,090 |
| USA | 629,420 | - | \$61,790 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------|----|
| Enforce safety and sanitation regulations. | Daily | 90 |
| Inspect materials, products, or equipment to detect defects or malfunctions. | Daily | 85 |
| Keep records of employees' attendance and hours worked. | Daily | 85 |
| Read and analyze charts, work orders, production schedules, and other records and reports to determine production requirements and to evaluate current production estimates and outputs. | Daily | 84 |
| Plan and establish work schedules, assignments, and production sequences to meet production goals. | Daily | 84 |



Coil Winders, Tapers, and Finishers

51-2021.00



Description: Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Armature Winder, Auto-Winder, Coil Finisher

Job Zone

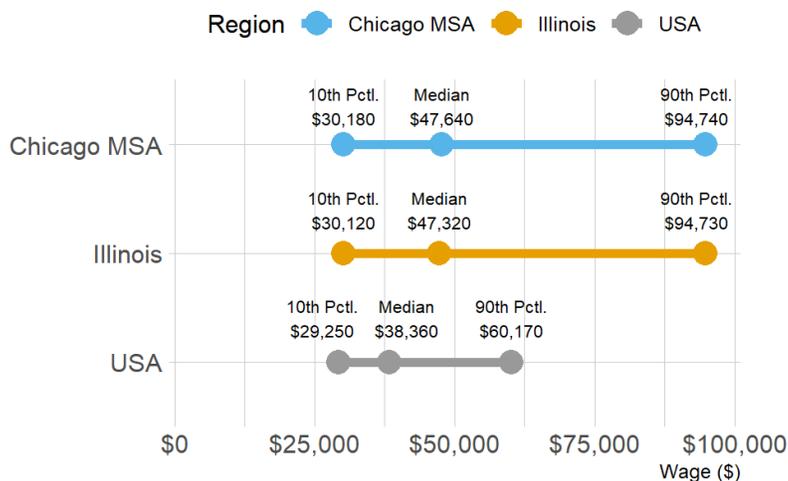
Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 570 | 1.71 | \$47,640 |
| Illinois | 660 | 1.48 | \$47,320 |
| USA | 11,090 | – | \$38,360 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Operate or tend wire-coiling machines to wind wire coils used in electrical components such as resistors and transformers, and in electrical equipment and instruments such as bobbins and generators.

Daily

92

Attach, alter, and trim materials such as wire, insulation, and coils, using hand tools.

Daily

89

Review work orders and specifications to determine materials needed and types of parts to be processed.

Daily

88

Cut, strip, and bend wire leads at ends of coils, using pliers and wire scrapers.

Daily

88

Select and load materials such as workpieces, objects, and machine parts onto equipment used in coiling processes.

Daily

85

Engine and Other Machine Assemblers

51-2031.00



Description: Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Assembler, Assembly Line Worker, Cell Technician

Job Zone

Title: 2 - Some Preparation Needed

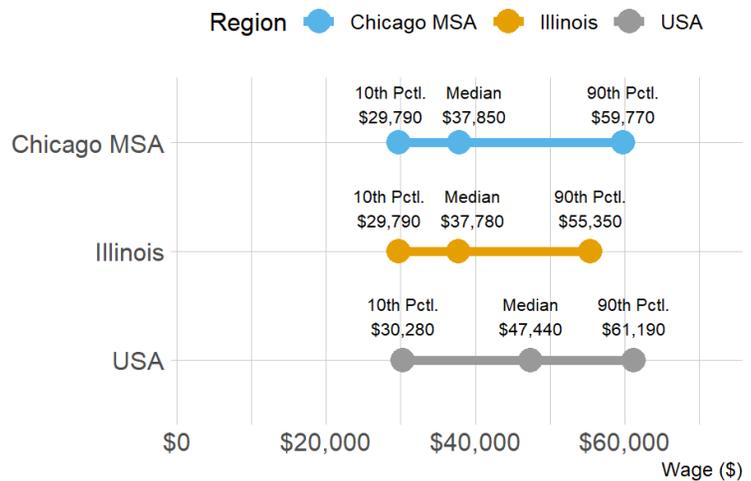
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Computer aided design and drafting CADD software, Dassault Systemes SolidWorks, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,520 | 1.10 | \$37,850 |
| Illinois | 1,770 | 0.96 | \$37,780 |
| USA | 45,990 | - | \$47,440 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|----------------|-------------------------|
| Read and interpret assembly blueprints or specifications manuals, and plan assembly or building operations. | Daily | 93 |
| Inspect, operate, and test completed products to verify functioning, machine capabilities, or conformance to customer specifications. | Daily | 89 |
| Position or align components for assembly, manually or using hoists. | Hourly or more | 88 |
| Set and verify parts clearances. | Daily | 88 |
| Verify conformance of parts to stock lists or blueprints, using measuring instruments such as calipers, gauges, or micrometers. | Hourly or more | 88 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Structural Metal Fabricators and Fitters

51-2041.00



Description: Fabricate, position, align, and fit parts of structural metal products.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Fabricator, Fitter, Layout Man

Job Zone

Title: 3 - Medium Preparation Needed

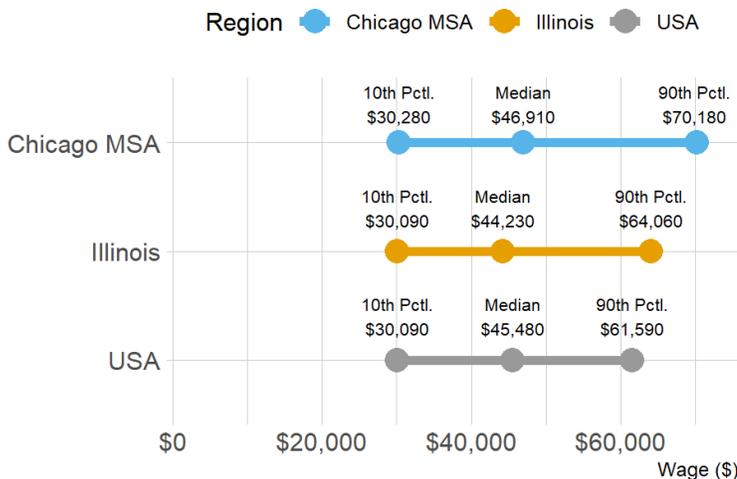
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Computer aided design and drafting CADD software, Dassault Systemes CATIA, Enterprise resource planning ERP software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,240 | 0.68 | \$46,910 |
| Illinois | 1,720 | 0.70 | \$44,230 |
| USA | 61,070 | - | \$45,480 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Verify conformance of workpieces to specifications, using squares, rulers, and measuring tapes.

Daily 87

Align and fit parts according to specifications, using jacks, turnbuckles, wedges, drift pins, pry bars, and hammers.

More than weekly 83

Move parts into position, manually or with hoists or cranes.

Daily 82

Position, align, fit, and weld parts to form complete units or subunits, following blueprints and layout specifications, and using jigs, welding torches, and hand tools.

Several times daily 81

Study engineering drawings and blueprints to determine materials requirements and task sequences.

Daily 81

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Fiberglass Laminators and Fabricators

51-2051.00



Description: Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Boat Builder, Boat Carpenter, Chopper Gun Operator

Job Zone

Title: 2 - Some Preparation Needed

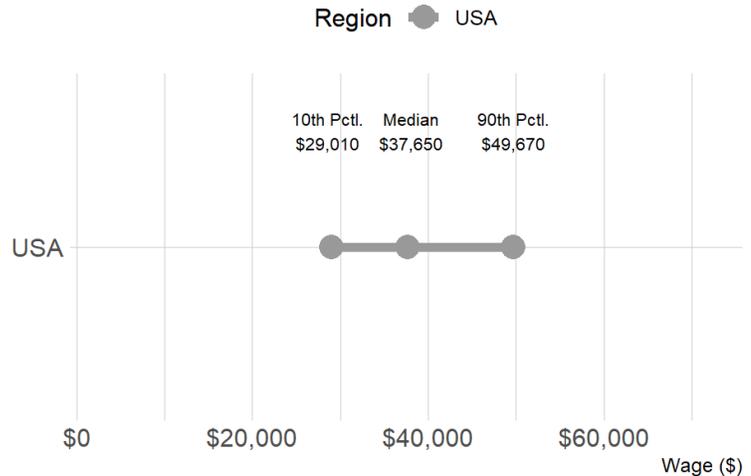
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Enterprise resource planning ERP software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 17,380 | - | \$37,650 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|---------------------|-------------------------|
| Release air bubbles and smooth seams, using rollers. | Hourly or more | 91 |
| Spray chopped fiberglass, resins, and catalysts onto prepared molds or dies using pneumatic spray guns with chopper attachments. | Hourly or more | 89 |
| Mix catalysts into resins, and saturate cloth and mats with mixtures, using brushes. | Several times daily | 89 |
| Check completed products for conformance to specifications and for defects by measuring with rulers or micrometers, by checking them visually, or by tapping them to detect bubbles or dead spots. | Daily | 88 |
| Pat or press layers of saturated mat or cloth into place on molds, using brushes or hands, and smooth out wrinkles and air bubbles with hands or squeegees. | Several times daily | 86 |



Timing Device Assemblers and Adjusters

51-2061.00



Description: Perform precision assembling or adjusting, within narrow tolerances, of timing devices such as digital clocks or timing devices with electrical or electronic components.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Calibration Specialist, Calibrator, Clockmaker

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

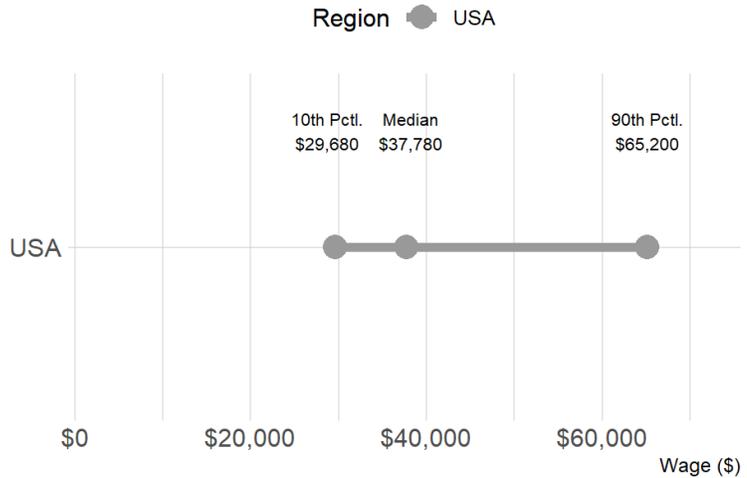
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Watchmaker of the 21st Century

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 560 | - | \$37,780 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Assemble and install components of timepieces to complete mechanisms, using watchmakers' tools and loupes. | Hourly or more | 90 |
| Observe operation of timepiece parts and subassemblies to determine accuracy of movement, and to diagnose causes of defects. | Daily | 89 |
| Test operation and fit of timepiece parts and subassemblies, using electronic testing equipment, tweezers, watchmakers' tools, and loupes. | Daily | 86 |
| Replace specified parts to repair malfunctioning timepieces, using watchmakers' tools, loupes, and holding fixtures. | Daily | 83 |
| Disassemble timepieces such as watches, clocks, and chronometers so that repairs can be made. | Hourly or more | 83 |

Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic

51-4021.00



Description: Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Equipment Technician, Extruder Operator, Extrusion Operator

Job Zone

Title: 2 - Some Preparation Needed

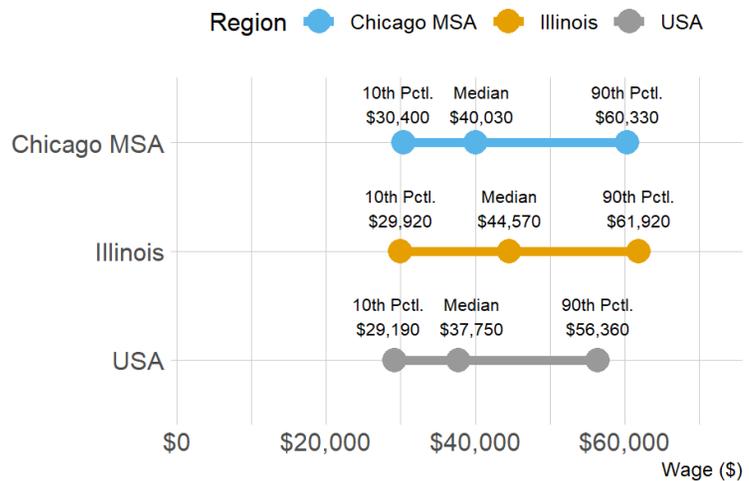
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,540 | 0.86 | \$40,030 |
| Illinois | 2,190 | 0.92 | \$44,570 |
| USA | 59,490 | - | \$37,750 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Measure and examine extruded products to locate defects and to check for conformance to specifications, adjusting controls as necessary to alter products.

Hourly or more **91**

Determine setup procedures and select machine dies and parts, according to specifications.

Several times daily **87**

Start machines and set controls to regulate vacuum, air pressure, sizing rings, and temperature, and to synchronize speed of extrusion.

Hourly or more **86**

Reel extruded products into rolls of specified lengths and weights.

Hourly or more **86**

Install dies, machine screws, and sizing rings on machines that extrude thermoplastic or metal materials.

Daily **83**



Forging Machine Setters, Operators, and Tenders, Metal and Plastic

51-4022.00



Description: Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Blacksmith, Cold Header Operator, Forge Operator

Job Zone

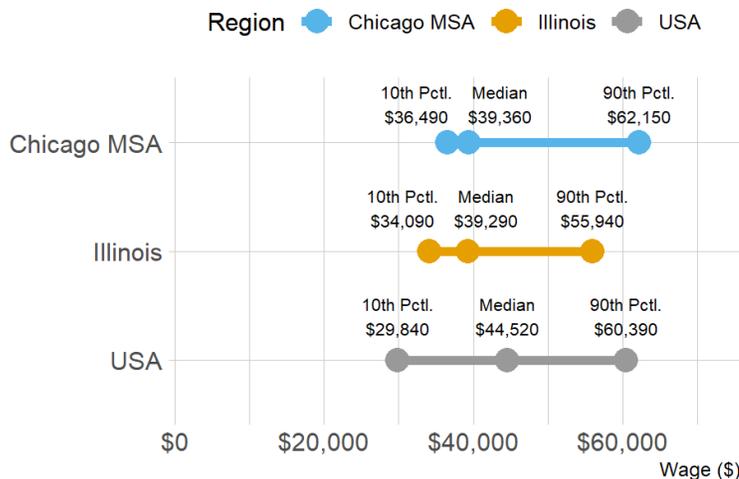
Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 440 | 1.29 | \$39,360 |
| Illinois | 430 | 0.94 | \$39,290 |
| USA | 11,500 | - | \$44,520 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Read work orders or blueprints to determine specified tolerances and sequences of operations for machine setup.

Daily 91

Measure and inspect machined parts to ensure conformance to product specifications.

Hourly or more 89

Position and move metal wires or workpieces through a series of dies that compress and shape stock to form die impressions.

Hourly or more 89

Set up, operate, or tend presses and forging machines to perform hot or cold forging by flattening, straightening, bending, cutting, piercing, or other operations to taper, shape, or form metal.

Hourly or more 88

Turn handles or knobs to set pressures and depths of ram strokes and to synchronize machine operations.

Daily 87

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Rolling Machine Setters, Operators, and Tenders, Metal and Plastic

51-4023.00



Description: Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate, or to flatten, temper, or reduce gauge of material.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Breakdown Mill Operator, Calender Operator, Cold Mill Operator

Job Zone

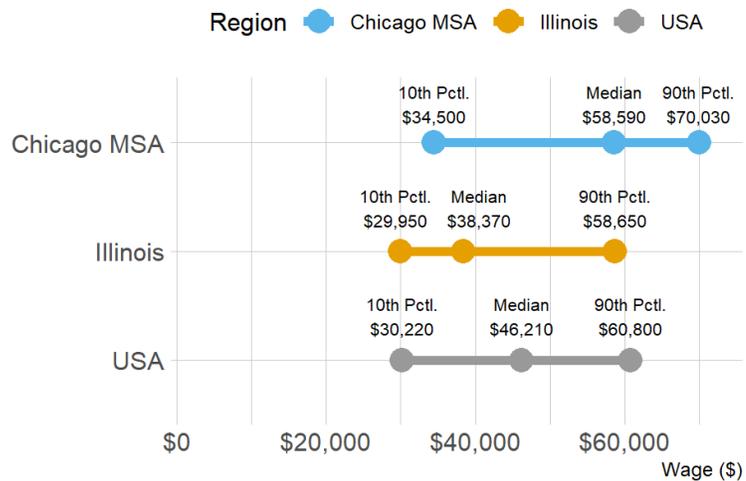
Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,510 | 1.59 | \$58,590 |
| Illinois | 890 | 0.70 | \$38,370 |
| USA | 31,650 | - | \$46,210 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|----------------|----|
| Adjust and correct machine set-ups to reduce thicknesses, reshape products, and eliminate product defects. | Hourly or more | 91 |
| Monitor machine cycles and mill operation to detect jamming and to ensure that products conform to specifications. | Hourly or more | 91 |
| Start operation of rolling and milling machines to flatten, temper, form, and reduce sheet metal sections and to produce steel strips. | Hourly or more | 89 |
| Examine, inspect, and measure raw materials and finished products to verify conformance to specifications. | Hourly or more | 88 |
| Read rolling orders, blueprints, and mill schedules to determine setup specifications, work sequences, product dimensions, and installation procedures. | Hourly or more | 87 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic



Description: Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Die Setter, Fabrication Operator, Machine Operator

Job Zone

Title: 2 - Some Preparation Needed

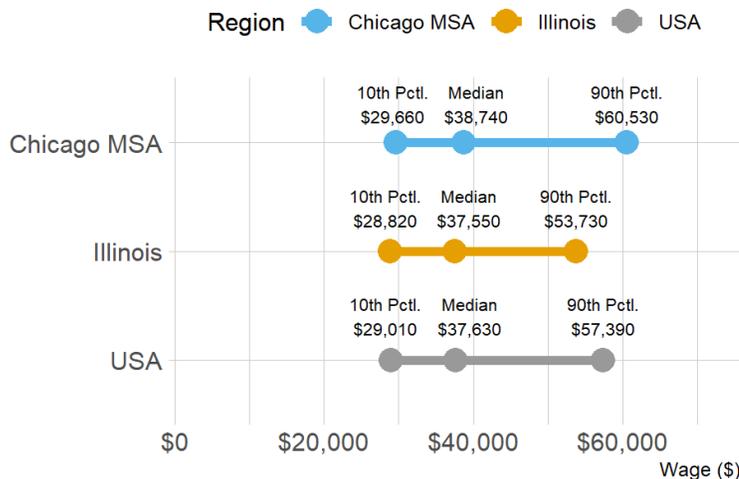
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,590 | 1.41 | \$38,740 |
| Illinois | 8,860 | 1.24 | \$37,550 |
| USA | 179,630 | - | \$37,630 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Measure completed workpieces to verify conformance to specifications, using micrometers, gauges, calipers, templates, or rulers.

Hourly or more **90**

Examine completed workpieces for defects, such as chipped edges or marred surfaces and sort defective pieces according to types of flaws.

Daily **90**

Set stops on machine beds, change dies, and adjust components, such as rams or power presses, when making multiple or successive passes.

Daily **90**

Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.

Daily **86**

Start machines, monitor their operations, and record operational data.

Daily **86**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic

51-4032.00



Description: Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bore Mill Operator

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

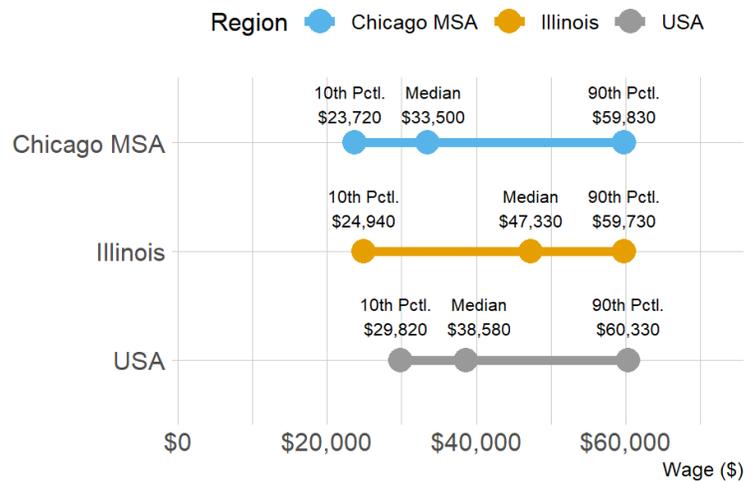
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Milling: Operations, Machining Level I - Drill Press I, Operator Certification

Hot Technologies: Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 170 | 0.82 | \$33,500 |
| Illinois | 290 | 1.05 | \$47,330 |
| USA | 6,810 | – | \$38,580 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Verify conformance of machined work to specifications, using measuring instruments, such as calipers, micrometers, or fixed or telescoping gauges.

Hourly or more

94

Study machining instructions, job orders, or blueprints to determine dimensional or finish specifications, sequences of operations, setups, or tooling requirements.

Daily

92

Change worn cutting tools, using wrenches.

Hourly or more

91

Select and set cutting speeds, feed rates, depths of cuts, and cutting tools, according to machining instructions or knowledge of metal properties.

Hourly or more

89

Install tools in spindles.

Daily

89

Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic



Description: Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Cell Operator, Centerless Grinder Operator, Deburrer

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

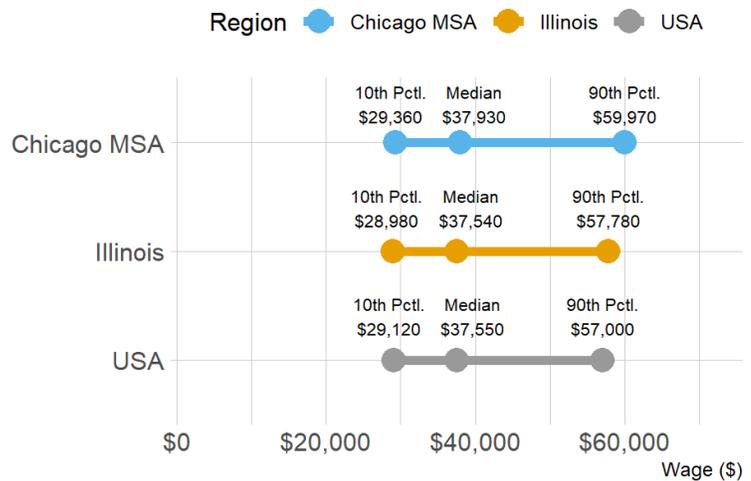
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Turning: Operations, Machining Level I - CNC Milling: Operations, Machining Level I - Grinding I

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,360 | 1.65 | \$37,930 |
| Illinois | 4,430 | 1.64 | \$37,540 |
| USA | 67,750 | – | \$37,550 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Inspect or measure finished workpieces to determine conformance to specifications, using measuring instruments, such as gauges or micrometers.

Hourly or more
93

Measure workpieces and lay out work, using precision measuring devices.

Hourly or more
89

Observe machine operations to detect any problems, making necessary adjustments to correct problems.

Hourly or more
88

Select machine tooling to be used, using knowledge of machine and production requirements.

Daily
87

Study blueprints, work orders, or machining instructions to determine product specifications, tool requirements, and operational sequences.

Daily
87

Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic

51-4034.00



Description: Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Computer Numerical Control Lathe Operator (CNC Lathe Operator)

Job Zone

Title: 2 - Some Preparation Needed

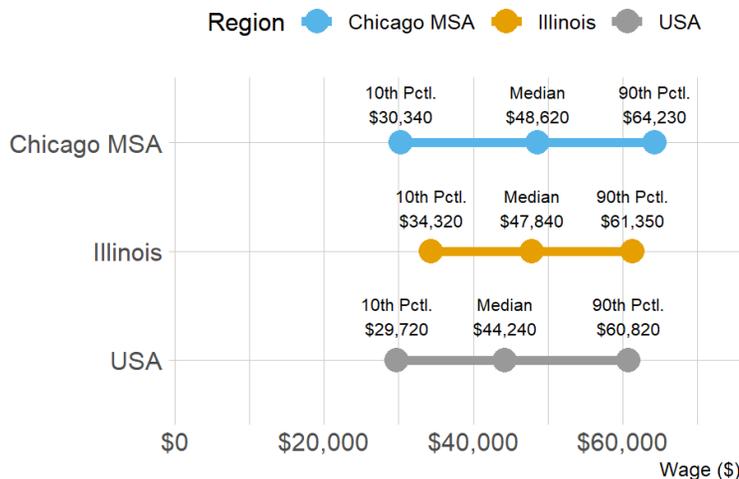
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Milling; Programming Setup & Operations, Machining Level I - Milling, Machining Level I - Job Planning, Benchwork

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 420 | 0.71 | \$48,620 |
| Illinois | 800 | 1.02 | \$47,840 |
| USA | 19,690 | - | \$44,240 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|---------------------|-------------------------|
| Adjust machine controls and change tool settings to keep dimensions within specified tolerances. | Several times daily | 94 |
| Replace worn tools, and sharpen dull cutting tools and dies, using bench grinders or cutter-grinding machines. | Several times daily | 91 |
| Inspect sample workpieces to verify conformance with specifications, using instruments such as gauges, micrometers, and dial indicators. | Hourly or more | 90 |
| Start lathe or turning machines and observe operations to ensure that specifications are met. | Daily | 89 |
| Position, secure, and align cutting tools in toolholders on machines, using hand tools, and verify their positions with measuring instruments. | Several times daily | 88 |

Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic

51-4035.00



Description: Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Machine Operator, Mill Operator, Miller

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

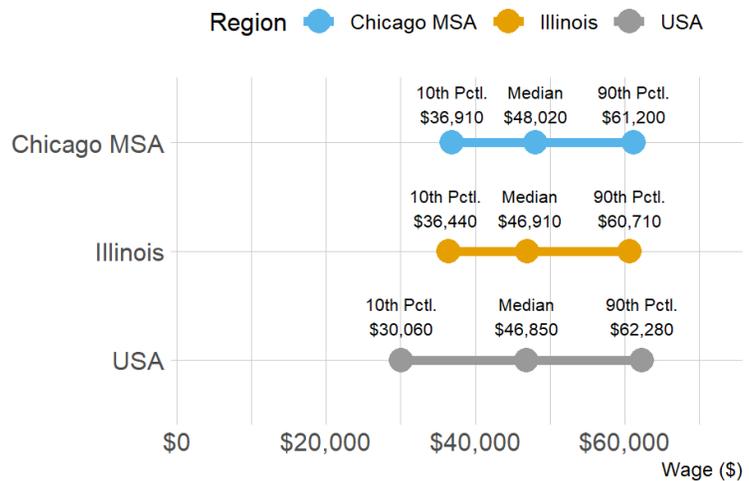
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Milling; Programming Setup & Operations, Machining Level I - Milling, Machining Level I - Measurement

Hot Technologies: Autodesk AutoCAD, Extensible markup language XML, Microsoft Office Suite, Siemens Solid Edge, SmartCAMcnc SmartCAM, Vero Software ALPHACAM

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 540 | 1.21 | \$48,020 |
| Illinois | 920 | 1.54 | \$46,910 |
| USA | 14,920 | - | \$46,850 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Remove workpieces from machines, and check to ensure that they conform to specifications, using measuring instruments such as microscopes, gauges, calipers, and micrometers.

Hourly or more

90

Position and secure workpieces on machines, using holding devices, measuring instruments, hand tools, and hoists.

Hourly or more

90

Verify alignment of workpieces on machines, using measuring instruments such as rules, gauges, or calipers.

Hourly or more

88

Observe milling or planing machine operation, and adjust controls to ensure conformance with specified tolerances.

Hourly or more

87

Move cutters or material manually or by turning handwheels, or engage automatic feeding mechanisms to mill workpieces to specifications.

Hourly or more

87



Machinists

51-4041.00



Description: Set up and operate a variety of machine tools to produce precision parts and instruments out of metal. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: CNC Machinist (Computer Numeric Controlled Machinist)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

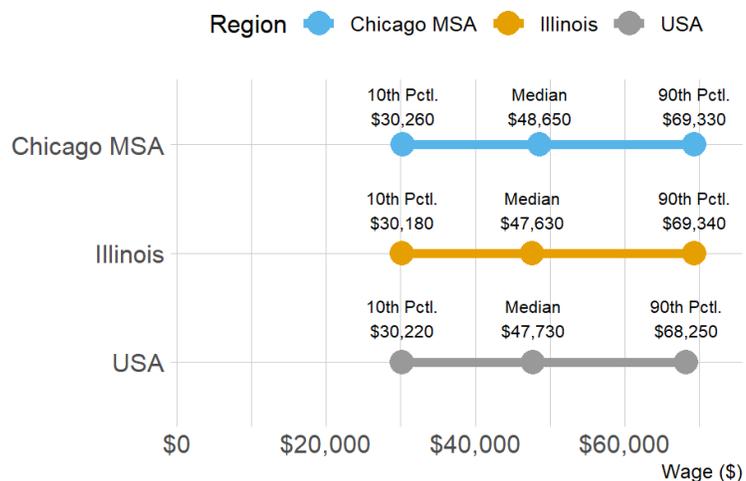
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Milling: Programming Setup & Operations, Machining Level I - Milling, Machining Level I - Job Planning, Benchwork

Hot Technologies: 3D Printing software, Autodesk AutoCAD, Computer aided design CAD software, Dassault Systemes CATIA, Dassault Systemes SolidWorks, ERP software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 13,990 | 1.40 | \$48,650 |
| Illinois | 20,510 | 1.54 | \$47,630 |
| USA | 333,220 | - | \$47,730 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Calculate dimensions or tolerances, using instruments, such as micrometers or vernier calipers. | Hourly or more | 96 |
| Machine parts to specifications, using machine tools, such as lathes, milling machines, shapers, or grinders. | Hourly or more | 95 |
| Measure, examine, or test completed units to check for defects and ensure conformance to specifications, using precision instruments, such as micrometers. | Hourly or more | 92 |
| Program computers or electronic instruments, such as numerically controlled machine tools. | Daily | 91 |
| Set up, adjust, or operate basic or specialized machine tools used to perform precision machining operations. | Daily | 91 |

Model Makers, Metal and Plastic

51-4061.00



Description: Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects. Includes template makers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Metal Model Maker, Model Builder, Model Maker

Job Zone

Title: 3 - Medium Preparation Needed

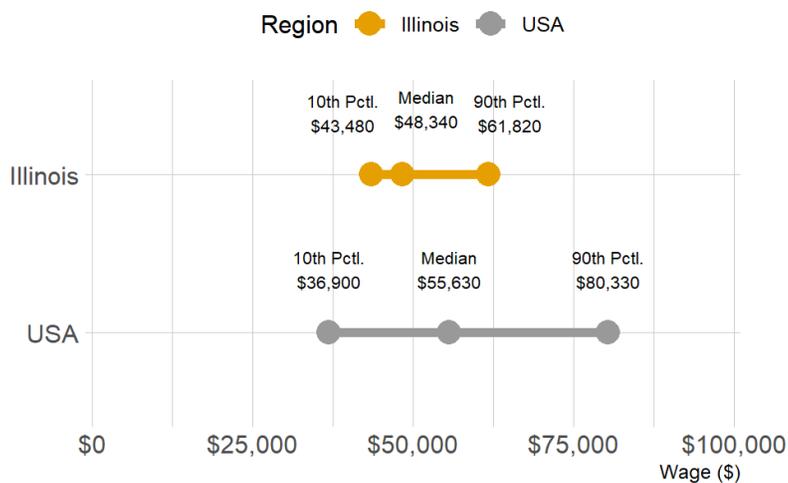
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, PTC Creo Parametric

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | – | – | \$48,340 |
| USA | 3,690 | – | \$55,630 |



Top 5 Core Tasks According to Current Job Holders

| | Frequency | Importance (out of 100) |
|--|-----------|-------------------------|
|--|-----------|-------------------------|

| | | |
|--|----------------|----|
| Study blueprints, drawings, and sketches to determine material dimensions, required equipment, and operations sequences. | Hourly or more | 95 |
|--|----------------|----|

| | | |
|--|-------|----|
| Inspect and test products to verify conformance to specifications, using precision measuring instruments or circuit testers. | Daily | 94 |
|--|-------|----|

| | | |
|---|-------|----|
| Drill, countersink, and ream holes in parts and assemblies for bolts, screws, and other fasteners, using power tools. | Daily | 93 |
|---|-------|----|

| | | |
|--|-------|----|
| Set up and operate machines, such as lathes, drill presses, punch presses, or bandsaws, to fabricate prototypes or models. | Daily | 92 |
|--|-------|----|

| | | |
|---|-------|----|
| Cut, shape, and form metal parts, using lathes, power saws, snips, power brakes and shears, files, and mallets. | Daily | 92 |
|---|-------|----|

Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic



Description: Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Core Machine Operator, Die Cast Technician, Diecast Machine Operator

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

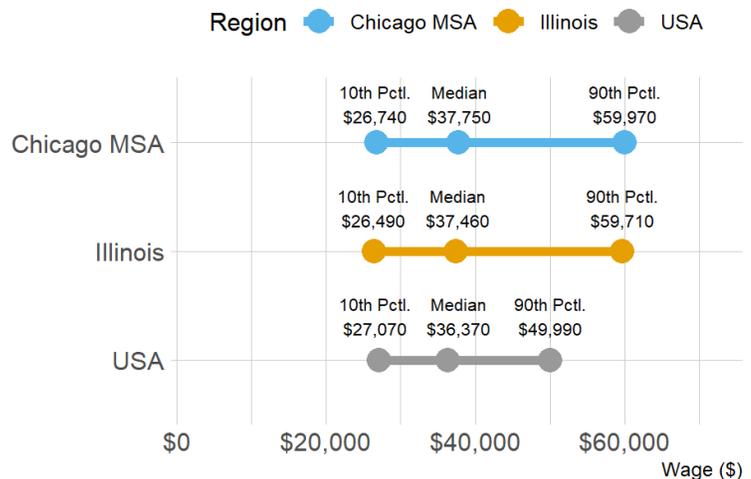
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - Job Planning, Benchwork, and Layout, Machining Level I - CNC Turning: Operations, Machining Level I - CNC Milling: Operations

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 7,920 | 1.61 | \$37,750 |
| Illinois | 10,440 | 1.60 | \$37,460 |
| USA | 163,210 | - | \$36,370 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|---|----------------|----|
| Measure and visually inspect products for surface and dimension defects to ensure conformance to specifications, using precision measuring instruments. | Hourly or more | 90 |
| Observe continuous operation of automatic machines to ensure that products meet specifications and to detect jams or malfunctions, making adjustments as necessary. | Hourly or more | 88 |
| Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products. | Daily | 86 |
| Turn valves and dials of machines to regulate pressure, temperature, and speed and feed rates, and to set cycle times. | Daily | 84 |
| Read specifications, blueprints, and work orders to determine setups, temperatures, and time settings required to mold, form, or cast plastic materials, as well as to plan production sequences. | Daily | 82 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic

51-4081.00



Description: Set up, operate, or tend more than one type of cutting or forming machine tool or robot.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Cell Technician

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

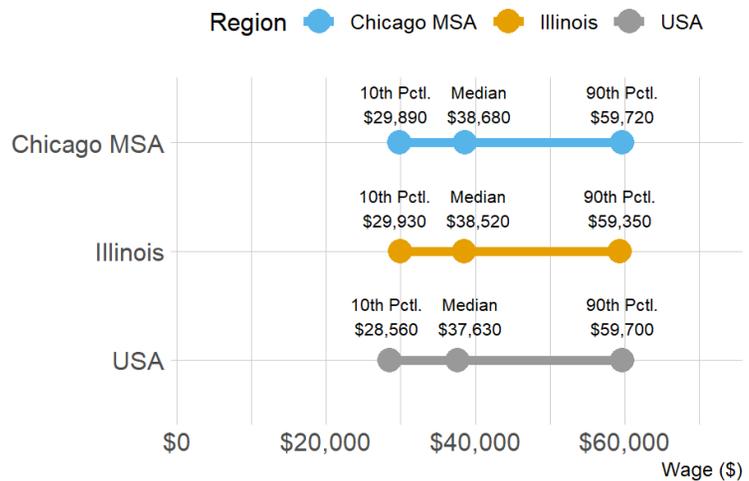
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Milling; Programming Setup & Operations

Hot Technologies: Autodesk AutoCAD, Enterprise resource planning ERP software, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 4,810 | 1.19 | \$38,680 |
| Illinois | 7,050 | 1.31 | \$38,520 |
| USA | 134,880 | - | \$37,630 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|----------------|----|
| Inspect workpieces for defects, and measure workpieces to determine accuracy of machine operation, using rules, templates, or other measuring instruments. | Hourly or more | 91 |
| Read blueprints or job orders to determine product specifications and tooling instructions and to plan operational sequences. | Hourly or more | 87 |
| Position, adjust, and secure stock material or workpieces against stops, on arbors, or in chucks, fixtures, or automatic feeding mechanisms, manually or using hoists. | Daily | 87 |
| Select, install, and adjust alignment of drills, cutters, dies, guides, and holding devices, using templates, measuring instruments, and hand tools. | Hourly or more | 87 |
| Observe machine operation to detect workpiece defects or machine malfunctions, adjusting machines as necessary. | Hourly or more | 84 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Tool and Die Makers

51-4111.00



Description: Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Die Machinist, Die Repair Laborer, Die Repair Technician (Die Repair Tech)

Job Zone

Title: 3 - Medium Preparation Needed

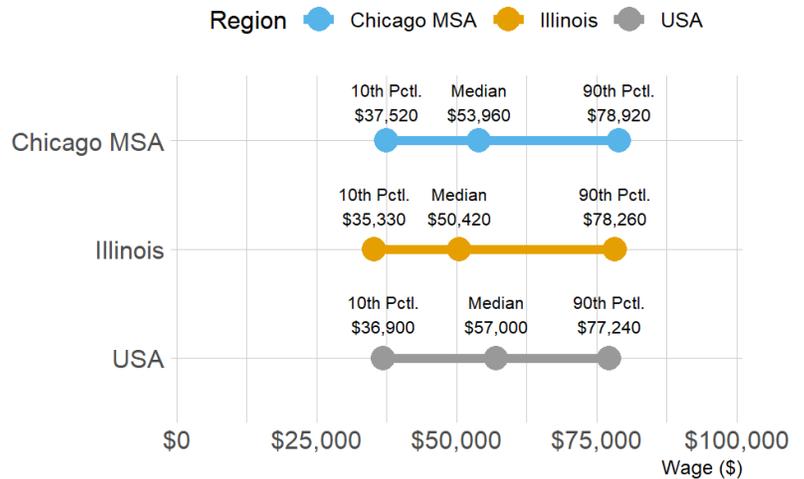
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Autodesk Inventor, Bentley MicroStation, Cimatron CimatronE Master, Dassault Systemes CATIA, Dassault Systemes SolidWorks

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,340 | 1.75 | \$53,960 |
| Illinois | 5,100 | 2.01 | \$50,420 |
| USA | 63,630 | - | \$57,000 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|---------------------|----|
| Verify dimensions, alignments, and clearances of finished parts for conformance to specifications, using measuring instruments such as calipers, gauge blocks, micrometers, or dial indicators. | Hourly or more | 91 |
| Set up and operate conventional or computer numerically controlled machine tools such as lathes, milling machines, or grinders to cut, bore, grind, or otherwise shape parts to prescribed dimensions and finishes. | Several times daily | 87 |
| Study blueprints, sketches, models, or specifications to plan sequences of operations for fabricating tools, dies, or assemblies. | Daily | 84 |
| Visualize and compute dimensions, sizes, shapes, and tolerances of assemblies, based on specifications. | Daily | 84 |
| Inspect finished dies for smoothness, contour conformity, and defects. | Daily | 82 |



Welders, Cutters, Solderers, and Brazers

51-4121.00



Description: Use hand-welding, flame-cutting, hand-soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Aluminum Welder, Assembly Line Brazer, Brazer

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

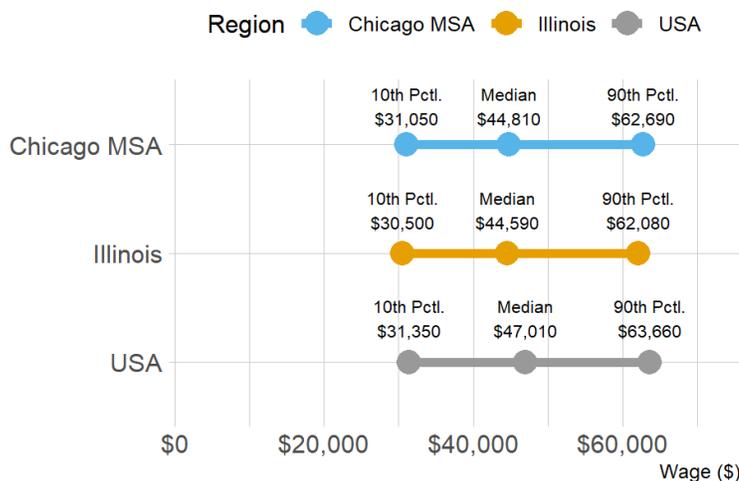
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Welder, Certified Associate Welding Inspector, Certified Welding Supervisor, Certified Radiographic Interpreter

Hot Technologies: Enterprise resource planning ERP software, EZ Pipe, IBM Notes, Microsoft Office Suite, Oracle software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 9,160 | 0.77 | \$44,810 |
| Illinois | 16,450 | 1.04 | \$44,590 |
| USA | 397,600 | - | \$47,010 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Weld components in flat, vertical, or overhead positions.

Hourly or more
 92

Operate safety equipment and use safe work habits.

Hourly or more
 91

Examine workpieces for defects and measure workpieces with straightedges or templates to ensure conformance with specifications.

Daily
 88

Recognize, set up, and operate hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment.

Hourly or more
 87

Weld separately or in combination, using aluminum, stainless steel, cast iron, and other alloys.

Hourly or more
 87



Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders

51-4122.00



Description: Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Braze Operator, Finishing Technician, Machine Operator

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

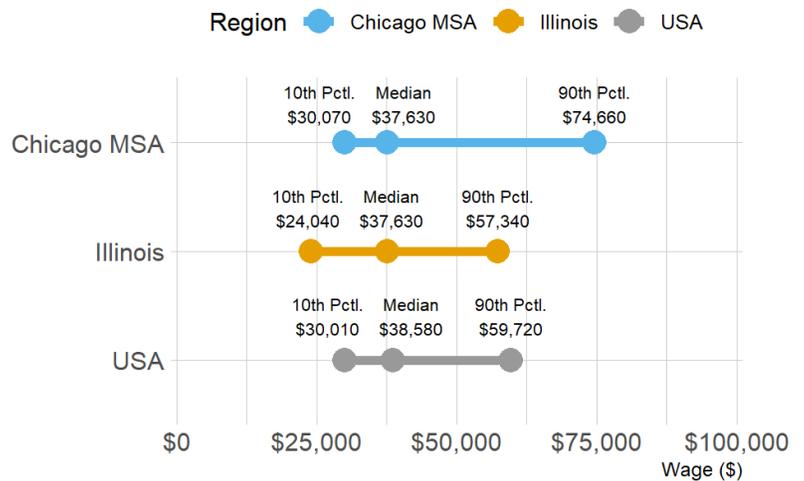
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: HVACR Brazing Processes, Certified Welding Inspector, Certified Welding Sales Representative

Hot Technologies: Enterprise resource planning ERP software, Linux, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 210 | 0.23 | \$37,630 |
| Illinois | 320 | 0.26 | \$37,630 |
| USA | 29,980 | - | \$38,580 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|-------|----|
| Inspect, measure, or test completed metal workpieces to ensure conformance to specifications, using measuring and testing devices. | Daily | 88 |
| Read blueprints, work orders, or production schedules to determine product or job instructions or specifications. | Daily | 86 |
| Set up, operate, or tend welding machines that join or bond components to fabricate metal products or assemblies. | Daily | 83 |
| Assemble, align, and clamp workpieces into holding fixtures to bond, heat-treat, or solder fabricated metal components. | Daily | 83 |
| Lay out, fit, or connect parts to be bonded, calculating production measurements, as necessary. | Daily | 82 |

Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic

51-4191.00



Description: Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Batch Heat Treat Operator, Burner, Coating Line Worker

Job Zone

Title: 2 - Some Preparation Needed

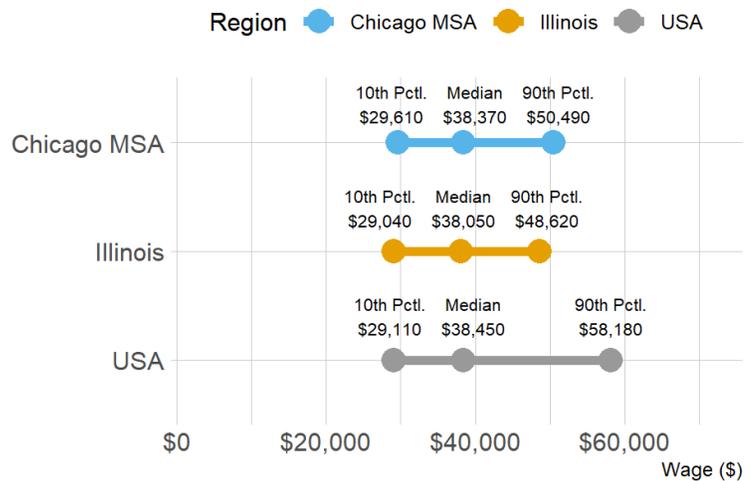
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Enterprise resource planning ERP software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 690 | 1.59 | \$38,370 |
| Illinois | 730 | 1.26 | \$38,050 |
| USA | 14,540 | - | \$38,450 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|----------------|----|
| Read production schedules and work orders to determine processing sequences, furnace temperatures, and heat cycle requirements for objects to be heat-treated. | Hourly or more | 97 |
| Record times that parts are removed from furnaces to document that objects have attained specified temperatures for specified times. | Hourly or more | 94 |
| Adjust controls to maintain temperatures and heating times, using thermal instruments and charts, dials and gauges of furnaces, and color of stock in furnaces to make setting determinations. | Hourly or more | 92 |
| Set up and operate or tend machines, such as furnaces, baths, flame-hardening machines, and electronic induction machines, that harden, anneal, and heat-treat metal. | Daily | 90 |
| Start conveyors and open furnace doors to load stock, or signal crane operators to uncover soaking pits and lower ingots into them. | Daily | 90 |



Layout Workers, Metal and Plastic

51-4192.00



Description: Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. Includes shipfitters.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Development Mechanic, Layout Fabricator, Layout Fitter

Job Zone

Title: 2 - Some Preparation Needed

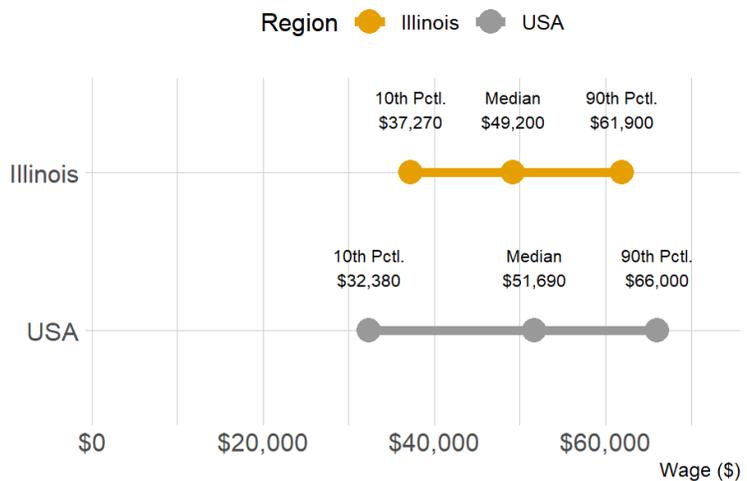
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Computer aided design CAD software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | - | - | \$49,200 |
| USA | 6,840 | - | \$51,690 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|----------------|----|
| Mark curves, lines, holes, dimensions, and welding symbols onto workpieces, using scribes, soapstones, punches, and hand drills. | Hourly or more | 89 |
| Fit and align fabricated parts to be welded or assembled. | Hourly or more | 88 |
| Plan locations and sequences of cutting, drilling, bending, rolling, punching, and welding operations, using compasses, protractors, dividers, and rules. | Daily | 88 |
| Locate center lines and verify template positions, using measuring instruments such as gauge blocks, height gauges, and dial indicators. | Daily | 87 |
| Plan and develop layouts from blueprints and templates, applying knowledge of trigonometry, design, effects of heat, and properties of metals. | Daily | 85 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Plating Machine Setters, Operators, and Tenders, Metal and Plastic

51-4193.00



Description: Set up, operate, or tend plating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Anodizer, Anodizing Line Operator, Chrome Plater

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

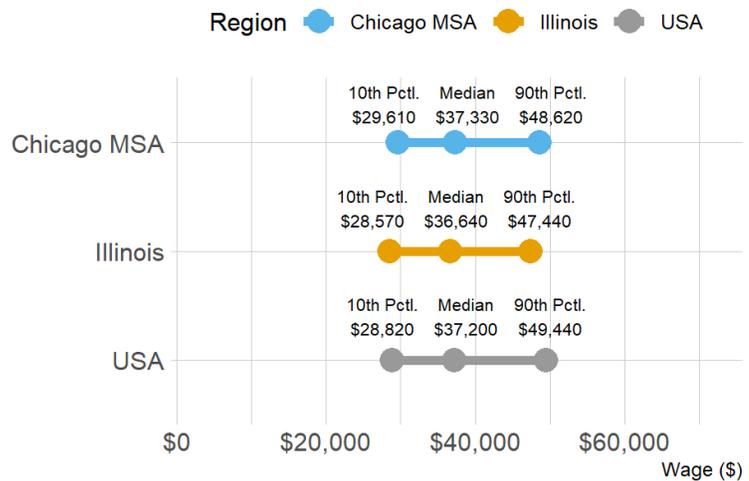
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Protective Coatings Specialist - Industrial and Marine Structures, Protective Coating Technician, Coatings Inspector Program Level 3 - Peer Review

Hot Technologies: Autodesk AutoCAD, Computer aided design CAD software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,530 | 1.58 | \$37,330 |
| Illinois | 1,790 | 1.39 | \$36,640 |
| USA | 32,310 | - | \$37,200 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|---------------------|----|
| Immerse workpieces in coating solutions or liquid metal or plastic for specified times. | Hourly or more | 93 |
| Inspect coated or plated areas for defects, such as air bubbles or uneven coverage. | Several times daily | 89 |
| Set up, operate, or tend plating or coating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. | Hourly or more | 89 |
| Adjust dials to regulate flow of current and voltage supplied to terminals to control plating processes. | Hourly or more | 89 |
| Maintain production records. | Daily | 88 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Tool Grinders, Filers, and Sharpeners

51-4194.00



Description: Perform precision smoothing, sharpening, polishing, or grinding of metal objects.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Cutter Grinder, Finisher, Grinder

Job Zone

Title: 2 - Some Preparation Needed

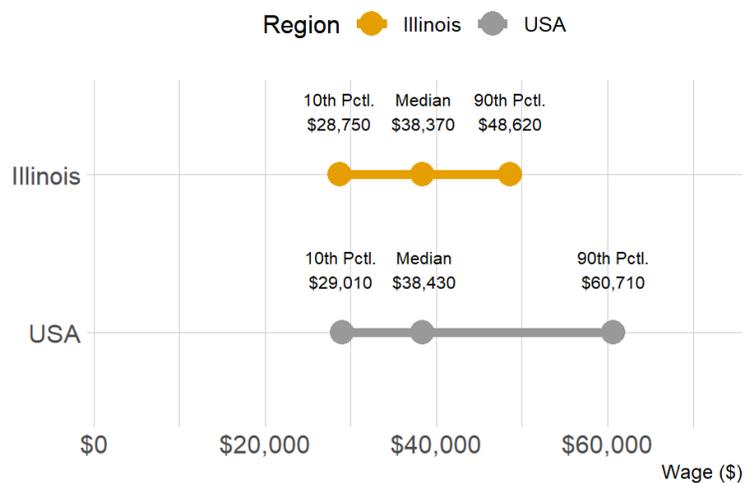
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Dassault Systemes SolidWorks, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | – | – | \$38,370 |
| USA | 6,100 | – | \$38,430 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Monitor machine operations to determine whether adjustments are necessary, stopping machines when problems occur. | Hourly or more | 91 |
| Inspect, feel, and measure workpieces to ensure that surfaces and dimensions meet specifications. | Hourly or more | 90 |
| Select and mount grinding wheels on machines, according to specifications, using hand tools and applying knowledge of abrasives and grinding procedures. | Daily | 88 |
| Compute numbers, widths, and angles of cutting tools, micrometers, scales, and gauges, and adjust tools to produce specified cuts. | Hourly or more | 88 |
| Study blueprints or layouts of metal workpieces to determine grinding procedures, and to plan machine setups and operational sequences. | Daily | 88 |

Upholsterers

51-6093.00



Description: Make, repair, or replace upholstery for household furniture or transportation vehicles.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Box Spring Upholsterer, Furniture Upholsterer, Inside Upholsterer

Job Zone

Title: 2 - Some Preparation Needed

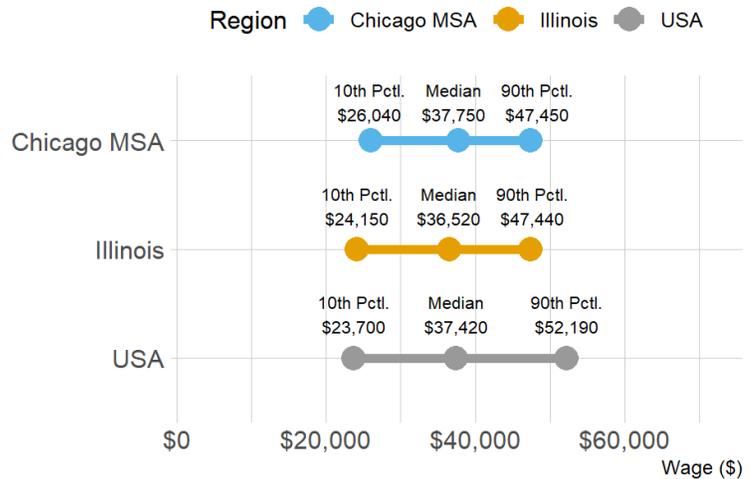
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Enterprise resource planning ERP software, Intuit QuickBooks, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 490 | 0.59 | \$37,750 |
| Illinois | 530 | 0.47 | \$36,520 |
| USA | 28,020 | - | \$37,420 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Fit, install, and secure material on frames, using hand tools, power tools, glue, cement, or staples.

Hourly or more

90

Measure and cut new covering materials, using patterns and measuring and cutting instruments, following sketches and design specifications.

Daily

90

Build furniture up with loose fiber stuffing, cotton, felt, or foam padding to form smooth, rounded surfaces.

Hourly or more

89

Read work orders, and apply knowledge and experience with materials to determine types and amounts of materials required to cover workpieces.

Hourly or more

87

Make, restore, or create custom upholstered furniture, using hand tools and knowledge of fabrics and upholstery methods.

Daily

87



Model Makers, Wood 51-7031.00



Description: Construct full-size and scale wooden precision models of products. Includes wood jig builders and loft workers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Craftsman, Model Builder, Model Maker

Job Zone

Title: 3 - Medium Preparation Needed

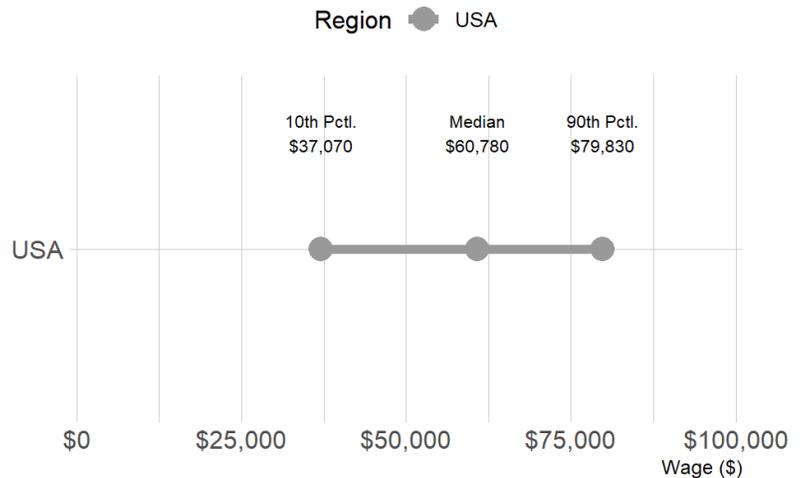
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Dassault Systemes CATIA, Microsoft Office Suite, Siemens NX

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 340 | - | \$60,780 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|----------------|-------------------------|
| Verify dimensions and contours of models during hand-forming processes, using templates and measuring devices. | Hourly or more | 93 |
| Read blueprints, drawings, or written specifications, and consult with designers to determine sizes and shapes of patterns and required machine setups. | Daily | 92 |
| Set up, operate, and adjust a variety of woodworking machines such as bandsaws and planers to cut and shape sections, parts, and patterns, according to specifications. | Daily | 90 |
| Fit, fasten, and assemble wood parts together to form patterns, models, or sections, using glue, nails, dowels, bolts, screws, and other fasteners. | Daily | 89 |
| Trim, smooth, and shape surfaces, and plane, shave, file, scrape, and sand models to attain specified shapes, using hand tools. | Daily | 88 |

Nuclear Power Reactor Operators

51-8011.00



Description: Operate or control nuclear reactors. Move control rods, start and stop equipment, monitor and adjust controls, and record data in logs. Implement emergency procedures when needed.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Licensed Reactor Operator, Nuclear Control Operator

Job Zone

Title: 3 - Medium Preparation Needed

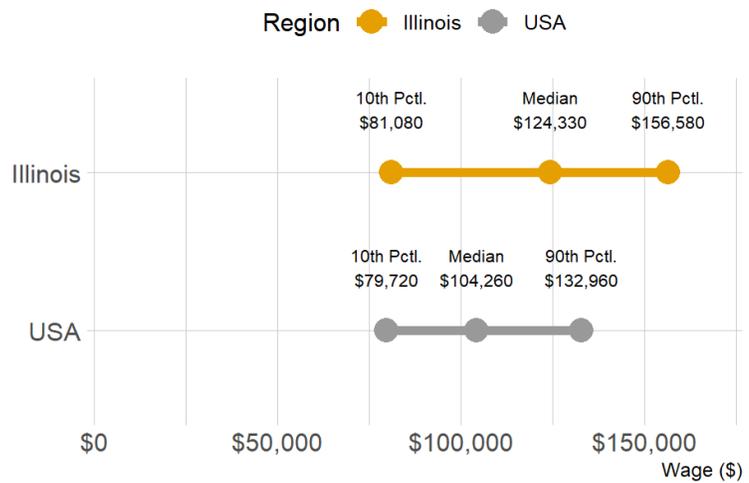
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 340 | 1.79 | \$124,330 |
| USA | 4,820 | - | \$104,260 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|---------------------|----|
| Operate nuclear power reactors in accordance with policies and procedures to protect workers from radiation and to ensure environmental safety. | Hourly or more | 99 |
| Adjust controls to position rod and to regulate flux level, reactor period, coolant temperature, or rate of power flow, following standard procedures. | Several times daily | 97 |
| Develop or implement actions such as lockouts, tagouts, or clearances to allow equipment to be safely repaired. | Daily | 96 |
| Respond to system or unit abnormalities, diagnosing the cause, and recommending or taking corrective action. | Daily | 95 |
| Monitor all systems for normal running conditions, performing activities such as checking gauges to assess output or the effects of generator loading on other equipment. | Hourly or more | 94 |



Power Distributors and Dispatchers

51-8012.00



Description: Coordinate, regulate, or distribute electricity or steam.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Control Operator, Distribution Dispatcher, Distribution System Operator

Job Zone

Title: 3 - Medium Preparation Needed

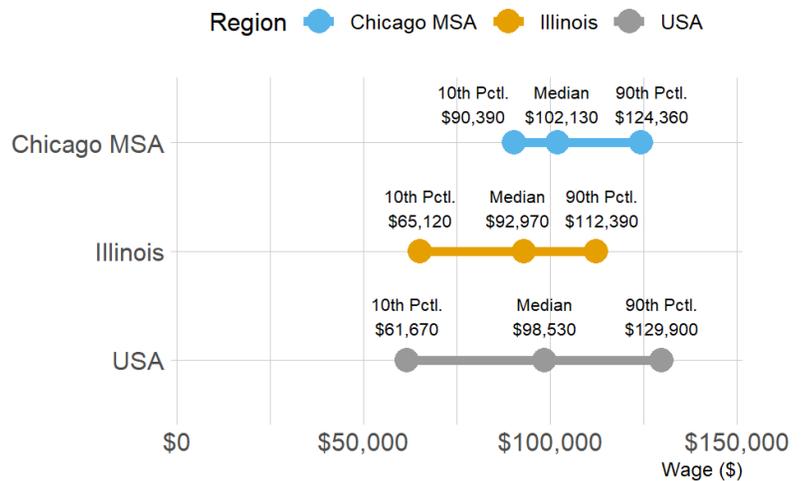
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: ESRI ArcGIS software, Microsoft Access, Microsoft Office Suite, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 120 | 0.40 | \$102,130 |
| Illinois | 300 | 0.77 | \$92,970 |
| USA | 9,660 | - | \$98,530 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

| | | |
|--|------------------|----|
| Respond to emergencies, such as transformer or transmission line failures, and route current around affected areas. | More than weekly | 97 |
| Prepare switching orders that will isolate work areas without causing power outages, referring to drawings of power systems. | More than yearly | 90 |
| Control, monitor, or operate equipment that regulates or distributes electricity or steam, using data obtained from instruments or computers. | Hourly or more | 88 |
| Coordinate with engineers, planners, field personnel, or other utility workers to provide information such as clearances, switching orders, or distribution process changes. | Hourly or more | 87 |
| Distribute or regulate the flow of power between entities, such as generating stations, substations, distribution lines, or users, keeping track of the status of circuits or connections. | Hourly or more | 86 |



Power Plant Operators

51-8013.00



Description: Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Auxiliary Operator, Control Operator, Control Room Operator

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

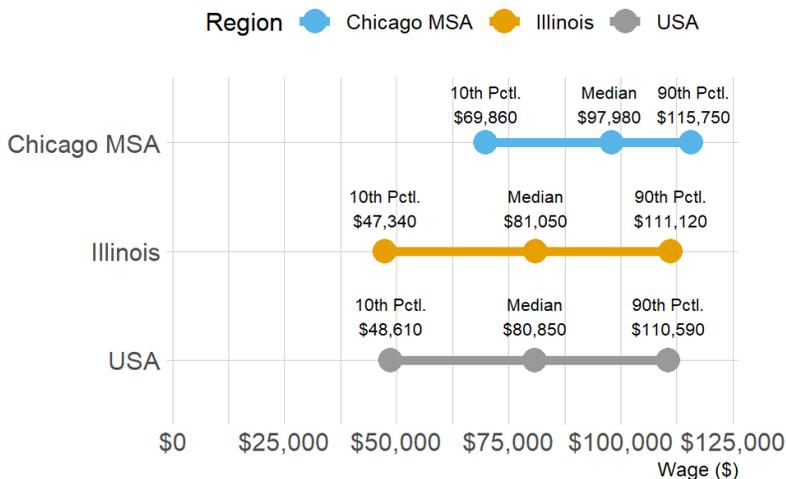
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Public Power Manager, Energy Efficiency Management Certificate Program, Public Power Customer Service Manager

Hot Technologies: Microsoft Access, Microsoft Office Suite, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 620 | 0.71 | \$97,980 |
| Illinois | 680 | 0.59 | \$81,050 |
| USA | 28,960 | - | \$80,850 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Adjust controls to generate specified electrical power or to regulate the flow of power between generating stations and substations. Hourly or more **95**

Monitor power plant equipment and indicators to detect evidence of operating problems. Hourly or more **94**

Control power generating equipment, including boilers, turbines, generators, or reactors, using control boards or semi-automatic equipment. Hourly or more **91**

Control or maintain auxiliary equipment, such as pumps, fans, compressors, condensers, feedwater heaters, filters, or chlorinators, to supply water, fuel, lubricants, air, or auxiliary power. Hourly or more **91**

Control generator output to match the phase, frequency, or voltage of electricity supplied to panels. Hourly or more **91**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Stationary Engineers and Boiler Operators

51-8021.00



Description: Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Boiler Operator, Boiler Technician, Building Engineer

Job Zone

Title: 3 - Medium Preparation Needed

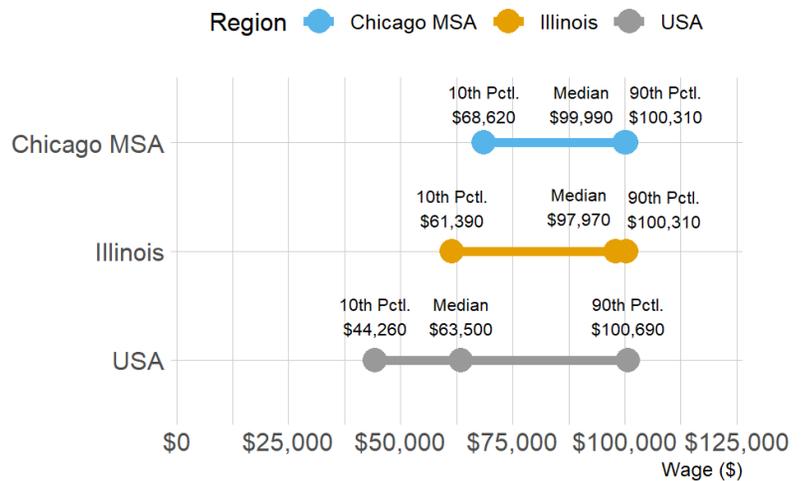
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Database software, Microsoft Active Server Pages ASP, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,180 | 1.32 | \$99,990 |
| Illinois | 1,710 | 1.43 | \$97,970 |
| USA | 29,820 | - | \$63,500 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|----------------|----|
| Activate valves to maintain required amounts of water in boilers, to adjust supplies of combustion air, and to control the flow of fuel into burners. | Daily | 92 |
| Monitor and inspect equipment, computer terminals, switches, valves, gauges, alarms, safety devices, and meters to detect leaks or malfunctions and to ensure that equipment is operating efficiently and safely. | Hourly or more | 92 |
| Monitor boiler water, chemical, and fuel levels, and make adjustments to maintain required levels. | Daily | 91 |
| Observe and interpret readings on gauges, meters, and charts registering various aspects of boiler operation to ensure that boilers are operating properly. | Daily | 90 |
| Test boiler water quality or arrange for testing and take necessary corrective action, such as adding chemicals to prevent corrosion and harmful deposits. | Daily | 89 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Water and Wastewater Treatment Plant and System Operators

51-8031.00



Description: Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or wastewater.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Plant Operator, Process Operator (Process Op), Relief Operator

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

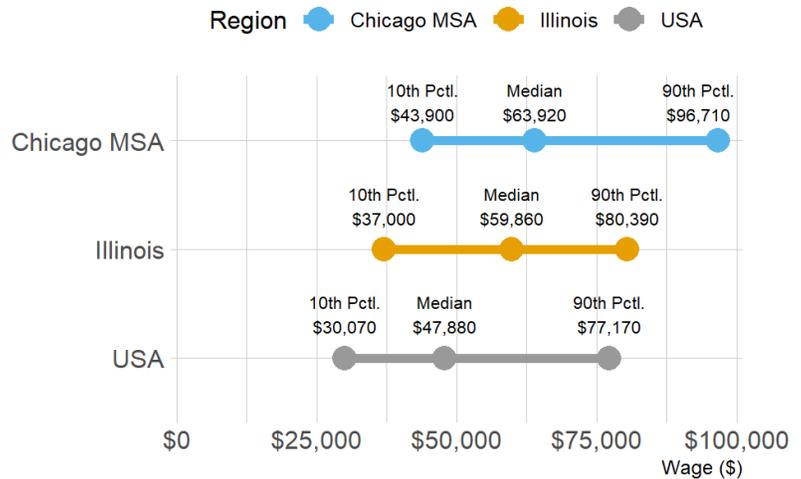
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Biosolids Land Appliers Class I, Water Lab Analyst Class II, Water Lab Analyst Class III, Water Lab Analyst Class IV

Hot Technologies: Database software, Microsoft Office Suite, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 2,560 | 0.7 | \$63,920 |
| Illinois | 4,850 | 1.0 | \$59,860 |
| USA | 121,150 | - | \$47,880 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Add chemicals, such as ammonia, chlorine, or lime, to disinfect and deodorize water and other liquids. | Hourly or more | 93 |
| Collect and test water and sewage samples, using test equipment and color analysis standards. | Several times daily | 91 |
| Operate and adjust controls on equipment to purify and clarify water, process or dispose of sewage, and generate power. | Daily | 88 |
| Record operational data, personnel attendance, or meter and gauge readings on specified forms. | Daily | 88 |
| Inspect equipment or monitor operating conditions, meters, and gauges to determine load requirements and detect malfunctions. | Daily | 87 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Gas Plant Operators

51-8092.00



Description: Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Compressor Station Operator, Engine Room Operator, Gas Controller

Job Zone

Title: 3 - Medium Preparation Needed

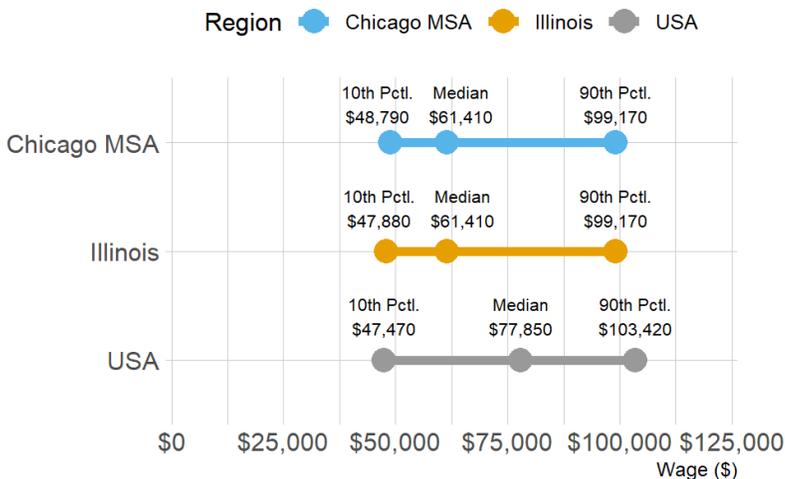
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, SAP business and customer relations management software, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 290 | 0.65 | \$61,410 |
| Illinois | 450 | 0.75 | \$61,410 |
| USA | 15,110 | - | \$77,850 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Monitor transportation and storage of flammable and other potentially dangerous products to ensure that safety guidelines are followed.

Daily

90

Monitor equipment functioning, observe temperature, level, and flow gauges, and perform regular unit checks to ensure that all equipment is operating as it should.

Hourly or more

89

Control operation of compressors, scrubbers, evaporators, and refrigeration equipment to liquefy, compress, or regasify natural gas.

Daily

89

Start and shut down plant equipment.

Daily

87

Record, review, and compile operations records, test results, and gauge readings such as temperatures, pressures, concentrations, and flows.

Daily

87

Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders

51-9021.00



Description: Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Crusher Operator, Cullet Trucker, Grinder Operator

Job Zone

Title: 2 - Some Preparation Needed

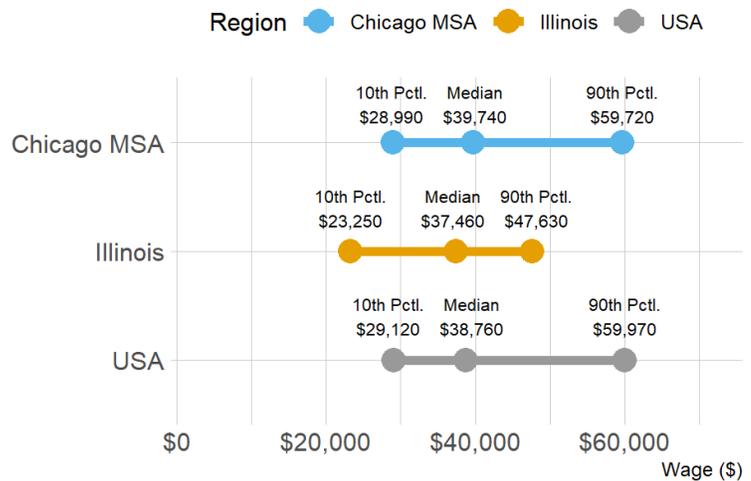
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 550 | 0.58 | \$39,740 |
| Illinois | 680 | 0.54 | \$37,460 |
| USA | 31,800 | - | \$38,760 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Observe operation of equipment to ensure continuity of flow, safety, and efficient operation, and to detect malfunctions. | Hourly or more | 86 |
| Move controls to start, stop, or adjust machinery and equipment that crushes, grinds, polishes, or blends materials. | Daily | 85 |
| Examine materials, ingredients, or products, visually or with hands, to ensure conformance to established standards. | Several times daily | 85 |
| Clean, adjust, and maintain equipment, using hand tools. | Daily | 85 |
| Read work orders to determine production specifications and information. | Daily | 83 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Grinding and Polishing Workers, Hand

51-9022.00



Description: Grind, sand, or polish, using hand tools or hand-held power tools, a variety of metal, wood, stone, clay, plastic, or glass objects. Includes chippers, buffers, and finishers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Buffer, Casting Finisher, Chipper

Job Zone

Title: 1 - Little or No Preparation Needed

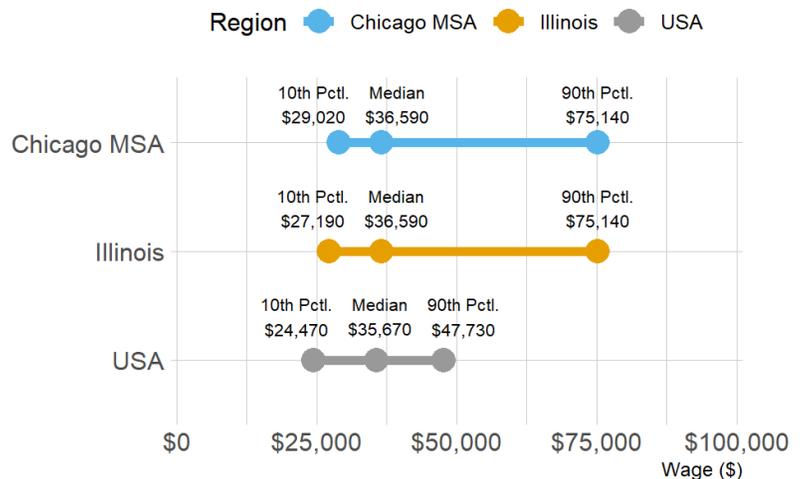
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 130 | 0.28 | \$36,590 |
| Illinois | 120 | 0.19 | \$36,590 |
| USA | 15,680 | - | \$35,670 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Grind, sand, clean, or polish objects or parts to correct defects or to prepare surfaces for further finishing, using hand tools and power tools.

Daily 83

Verify quality of finished workpieces by inspecting them, comparing them to templates, measuring their dimensions, or testing them in working machinery.

Daily 82

Move controls to adjust, start, or stop equipment during grinding and polishing processes.

Daily 78

Remove completed workpieces from equipment or work tables, using hand tools, and place workpieces in containers.

Daily 77

Measure and mark equipment, objects, or parts to ensure grinding and polishing standards are met.

Daily 76



Cutting and Slicing Machine Setters, Operators, and Tenders

51-9032.00



Description: Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Cutter, Cutter Operator, Cutting Pressman

Job Zone

Title: 2 - Some Preparation Needed

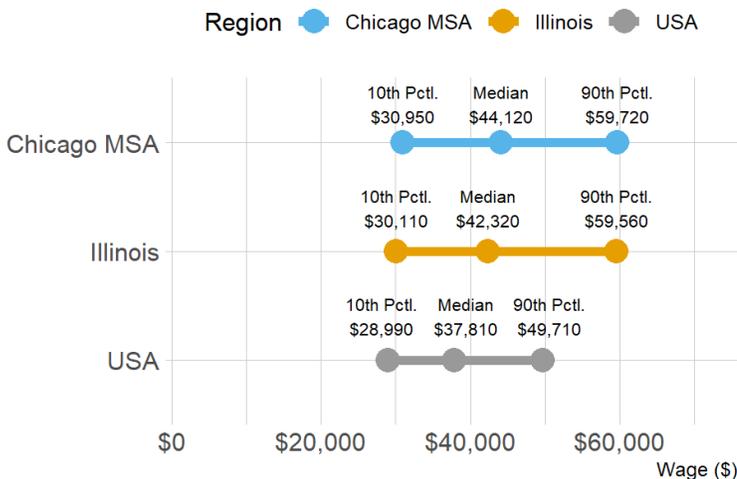
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,090 | 0.65 | \$44,120 |
| Illinois | 1,230 | 0.55 | \$42,320 |
| USA | 55,930 | - | \$37,810 |



Top 5 Core Tasks According to Current Job Holders

**Importance
Frequency (out of 100)**

| | | |
|---|----------------|----|
| Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material. | Hourly or more | 89 |
| Examine, measure, and weigh materials or products to verify conformance to specifications, using measuring devices, such as rulers, micrometers, or scales. | Hourly or more | 88 |
| Review work orders, blueprints, specifications, or job samples to determine components, settings, and adjustments for cutting and slicing machines. | Hourly or more | 88 |
| Press buttons, pull levers, or depress pedals to start and operate cutting and slicing machines. | Hourly or more | 88 |
| Start machines to verify setups, and make any necessary adjustments. | Daily | 86 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Inspectors, Testers, Sorters, Samplers, and Weighers

51-9061.00



Description: Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Inspector, QA Auditor (Quality Assurance Auditor)

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

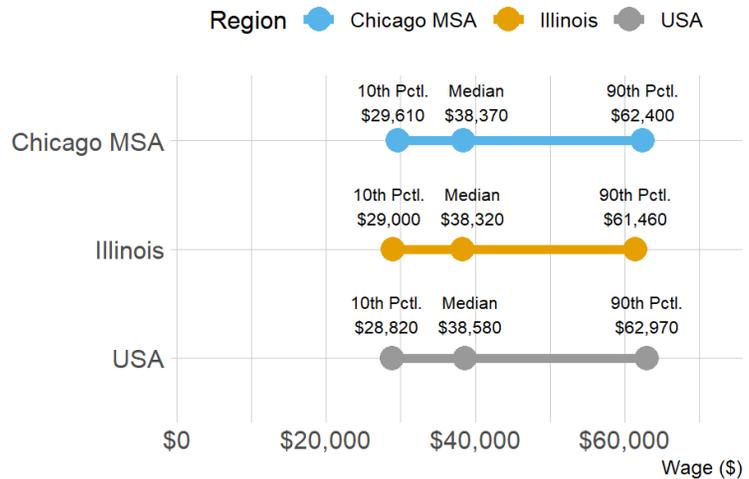
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Composites Technicians, ETT Trainee Level I, Certified Radiographic Interpreter, Certified Welding Inspector

Hot Technologies: Apache Hive, Apache Pig, Atlassian JIRA, Autodesk AutoCAD, Computer assisted design software, Dassault Systemes CATIA, Dassault Systemes SolidWorks

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 21,120 | 1.28 | \$38,370 |
| Illinois | 29,390 | 1.34 | \$38,320 |
| USA | 551,380 | - | \$38,580 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Discard or reject products, materials, or equipment not meeting specifications.

Hourly or more

94

Mark items with details, such as grade or acceptance-rejection status.

Hourly or more

91

Measure dimensions of products to verify conformance to specifications, using measuring instruments, such as rulers, calipers, gauges, or micrometers.

Hourly or more

90

Notify supervisors or other personnel of production problems.

Daily

90

Inspect, test, or measure materials, products, installations, or work for conformance to specifications.

Hourly or more

89

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Painting, Coating, and Decorating Workers

51-9123.00



Description: Paint, coat, or decorate articles, such as furniture, glass, plateware, pottery, jewelry, toys, books, or leather.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Decaler, Decorator, Glass Decorator

Job Zone

Title: 1 - Little or No Preparation Needed

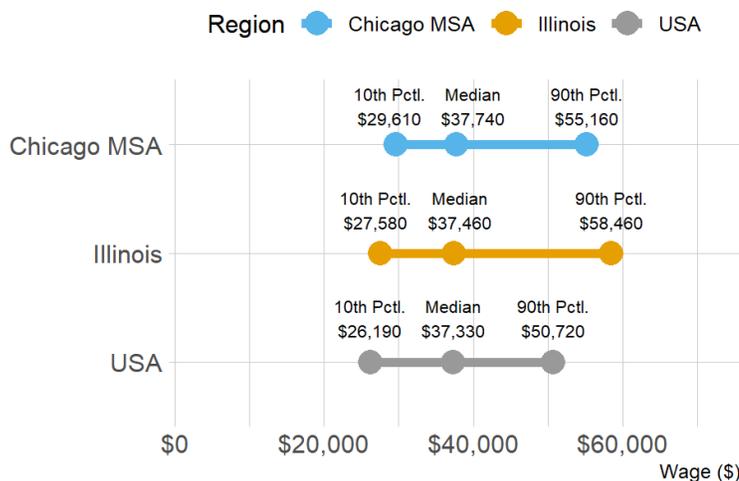
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Hot Technologies: Adobe Systems Adobe Illustrator, Adobe Systems Adobe Photoshop

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 270 | 0.75 | \$37,740 |
| Illinois | 340 | 0.71 | \$37,460 |
| USA | 11,850 | - | \$37,330 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Apply coatings, such as paint, ink, or lacquer, to protect or decorate workpiece surfaces, using spray guns, pens, or brushes.

Hourly or more

94

Examine finished surfaces of workpieces to verify conformance to specifications and retouch any defective areas.

Daily

89

Clean and maintain tools and equipment, using solvents, brushes, and rags.

Daily

82

Read job orders and inspect workpieces to determine work procedures and materials required.

Daily

82

Coating, Painting, and Spraying Machine Setters, Operators, and Tenders

51-9124.00



Description: Set up, operate, or tend spraying or rolling machines to coat or paint any of a wide variety of products, including glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Automotive Painter (Auto Painter)

Job Zone

Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

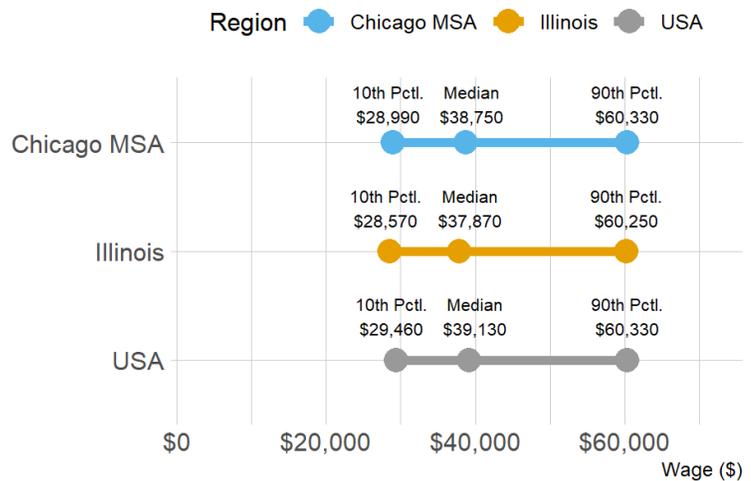
Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Protective Coatings Specialist - Industrial and Marine Structures, Protective Coating Technician, Coatings Inspector Program Level 3 - Peer Review

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 4,040 | 0.93 | \$38,750 |
| Illinois | 6,690 | 1.15 | \$37,870 |
| USA | 145,410 | - | \$39,130 |



Top 5 Core Tasks According to Current Job Holders

**Importance
Frequency (out of 100)**

Hold or position spray guns to direct spray onto articles.

Hourly or more
88

Fill hoppers, reservoirs, troughs, or pans with material used to coat, paint, or spray, using conveyors or pails.

Daily
86

Start and stop operation of machines, using levers or buttons.

Daily
83

Determine paint flow, viscosity, and coating quality by performing visual inspections, or by using viscometers.

Daily
81

Turn dials, handwheels, valves, or switches to regulate conveyor speeds, machine temperature, air pressure and circulation, and the flow or spray of coatings or paints.

Daily
81



Semiconductor Processing Technicians

51-9141.00



Description: Perform any or all of the following functions in the manufacture of electronic semiconductors: load semiconductor material into furnace; saw formed ingots into segments.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Device Processing Engineer, Diffusion Operator, Engineering Technician

Job Zone

Title: 2 - Some Preparation Needed

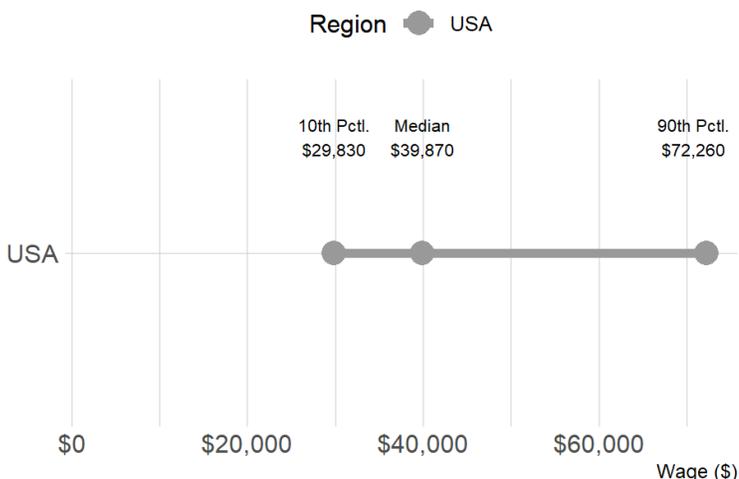
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Database software, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 24,020 | - | \$39,870 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Manipulate valves, switches, and buttons, or key commands into control panels to start semiconductor processing cycles.

Hourly or more

89

Maintain processing, production, and inspection information and reports.

Hourly or more

89

Inspect materials, components, or products for surface defects and measure circuitry, using electronic test equipment, precision measuring instruments, microscope, and standard procedures.

Hourly or more

89

Clean semiconductor wafers using cleaning equipment, such as chemical baths, automatic wafer cleaners, or blow-off wands.

Hourly or more

87

Study work orders, instructions, formulas, and processing charts to determine specifications and sequence of operations.

Daily

86

Computer Numerically Controlled Tool

Operators

51-9161.00



Description: Operate computer-controlled tools, machines, or robots to machine or process parts, tools, or other work pieces made of metal, plastic, wood, stone, or other materials. May also set up and maintain equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Brake Press Operator

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

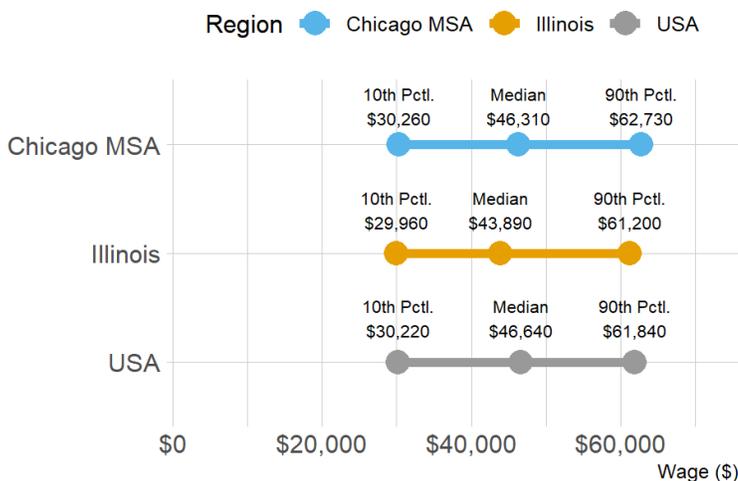
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Machining Level I - CNC Milling; Programming Setup & Operations

Hot Technologies: Autodesk AutoCAD, Computer aided design CAD software, Dassault Systemes SolidWorks, Enterprise resource planning ERP software, ERP software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,440 | 1.36 | \$46,310 |
| Illinois | 8,560 | 1.36 | \$43,890 |
| USA | 157,840 | – | \$46,640 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Measure dimensions of finished workpieces to ensure conformance to specifications, using precision measuring instruments, templates, and fixtures.

Hourly or more
92

Mount, install, align, and secure tools, attachments, fixtures, and workpieces on machines, using hand tools and precision measuring instruments.

Several times daily
89

Stop machines to remove finished workpieces or to change tooling, setup, or workpiece placement, according to required machining sequences.

Hourly or more
89

Insert control instructions into machine control units to start operation.

Several times daily
88

Check to ensure that workpieces are properly lubricated and cooled during machine operation.

Hourly or more
88

Computer Numerically Controlled Tool Programmers

51-9162.00



Description: Develop programs to control machining or processing of materials by automatic machine tools, equipment, or systems. May also set up, operate, or maintain equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: CAD CAM Programmer (Computer-Aided Design Computer-Aided Manufacturing)

Job Zone

Title: 3 - Medium Preparation Needed

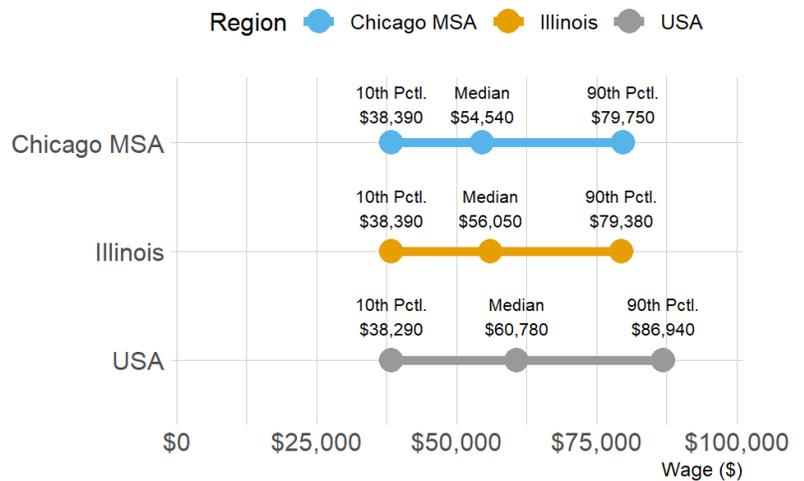
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Aptean Made2Manage, Autodesk AutoCAD, Computer aided design CAD software, Dassault Systemes CATIA, Dassault Systemes SolidWorks

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 930 | 1.20 | \$54,540 |
| Illinois | 1,240 | 1.21 | \$56,050 |
| USA | 25,800 | - | \$60,780 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|---------------------|----|
| Determine the sequence of machine operations, and select the proper cutting tools needed to machine workpieces into the desired shapes. | Several times daily | 88 |
| Write programs in the language of a machine's controller and store programs on media, such as punch tapes, magnetic tapes, or disks. | Several times daily | 88 |
| Revise programs or tapes to eliminate errors, and retest programs to check that problems have been solved. | Daily | 85 |
| Analyze job orders, drawings, blueprints, specifications, printed circuit board pattern films, and design data to calculate dimensions, tool selection, machine speeds, and feed rates. | Several times daily | 85 |
| Write instruction sheets and cutter lists for a machine's controller to guide setup and encode numerical control tapes. | Daily | 85 |

Adhesive Bonding Machine Operators and Tenders

51-9191.00



Description: Operate or tend bonding machines that use adhesives to join items for further processing or to form a completed product.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Coater Operator, Glue Line Operator, Glue Reel Operator

Job Zone

Title: 2 - Some Preparation Needed

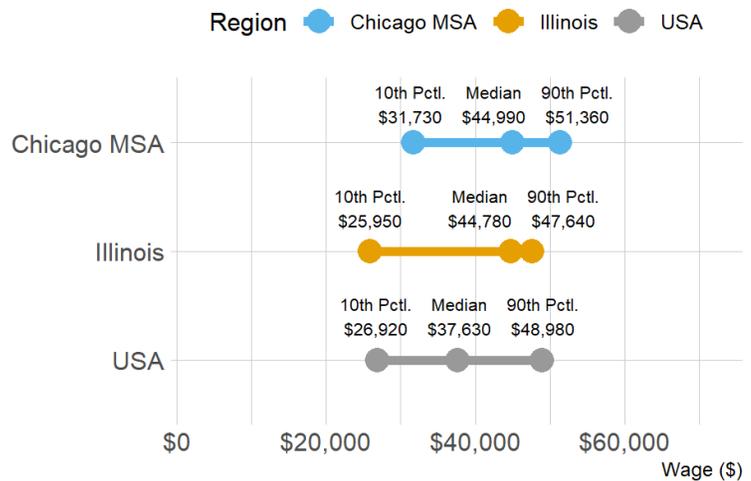
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Enterprise resource planning ERP software, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 220 | 0.59 | \$44,990 |
| Illinois | 270 | 0.55 | \$44,780 |
| USA | 12,510 | - | \$37,630 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|---------------------|----|
| Align and position materials being joined to ensure accurate application of adhesive or heat sealing. | Hourly or more | 92 |
| Adjust machine components according to specifications such as widths, lengths, and thickness of materials and amounts of glue, cement, or adhesive required. | Daily | 91 |
| Monitor machine operations to detect malfunctions and report or resolve problems. | Hourly or more | 91 |
| Start machines, and turn valves or move controls to feed, admit, apply, or transfer materials and adhesives, and to adjust temperature, pressure, and time settings. | Daily | 90 |
| Fill machines with glue, cement, or adhesives. | Several times daily | 89 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Etchers and Engravers

51-9194.00



Description: Engrave or etch metal, wood, rubber, or other materials. Includes such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Acid Etch Operator, Award Machine Operator, Chemical Engraver

Job Zone

Title: 2 - Some Preparation Needed

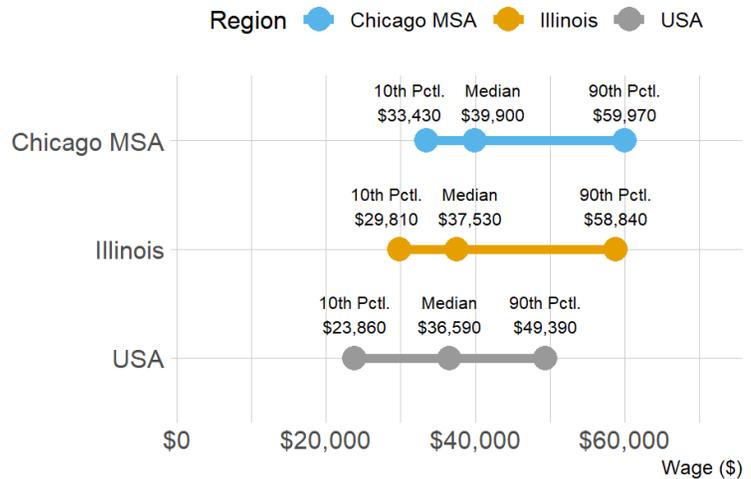
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Illustrator, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$39,900 |
| Illinois | - | - | \$37,530 |
| USA | 7,110 | - | \$36,590 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|----------------|-------------------------|
| Inspect etched work for depth of etching, uniformity, and defects, using calibrated microscopes, gauges, fingers, or magnifying lenses. | Hourly or more | 91 |
| Examine sketches, diagrams, samples, blueprints, or photographs to decide how designs are to be etched, cut, or engraved onto workpieces. | Hourly or more | 89 |
| Clean and polish engraved areas. | Daily | 81 |

Helpers--Production Workers

51-9198.00



Description: Help production workers by performing duties requiring less skill. Duties include supplying or holding materials or tools, and cleaning work area and equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Helper, Material Handler, Press Helper

Job Zone

Title: 2 - Some Preparation Needed

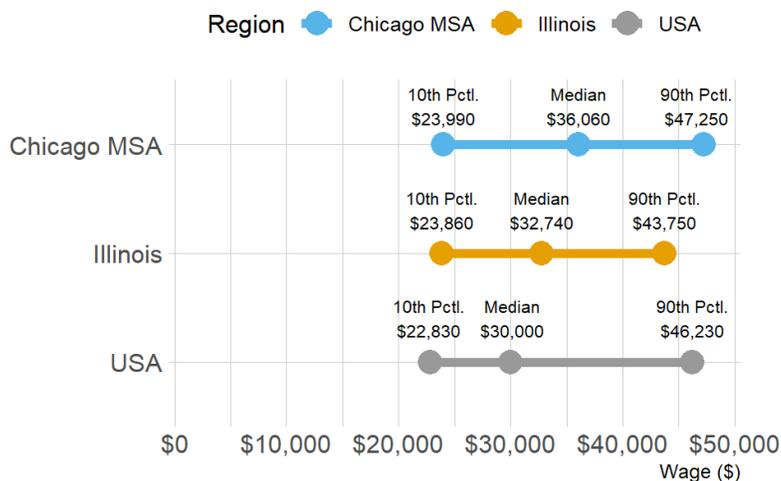
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Adobe Systems Adobe InDesign, Adobe Systems Adobe Photoshop, Autodesk AutoCAD, Enterprise resource planning ERP software,

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 6,440 | 1.06 | \$36,060 |
| Illinois | 8,400 | 1.04 | \$32,740 |
| USA | 202,860 | - | \$30,000 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|--|----------------|-------------------------|
| Operate machinery used in the production process, or assist machine operators. | Hourly or more | 84 |
| Load and unload items from machines, conveyors, and conveyances. | Hourly or more | 84 |
| Place products in equipment or on work surfaces for further processing, inspecting, or wrapping. | Hourly or more | 82 |
| Examine products to verify conformance to quality standards. | Hourly or more | 81 |
| Start machines or equipment to begin production processes. | Daily | 77 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Air Traffic Controllers

53-2021.00



Description: Control air traffic on and within vicinity of airport, and movement of air traffic between altitude sectors and control centers, according to established procedures and policies.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Air Traffic Control Specialist (ATCS), Air Traffic Controller (ATC)

Job Zone

Title: 3 - Medium Preparation Needed

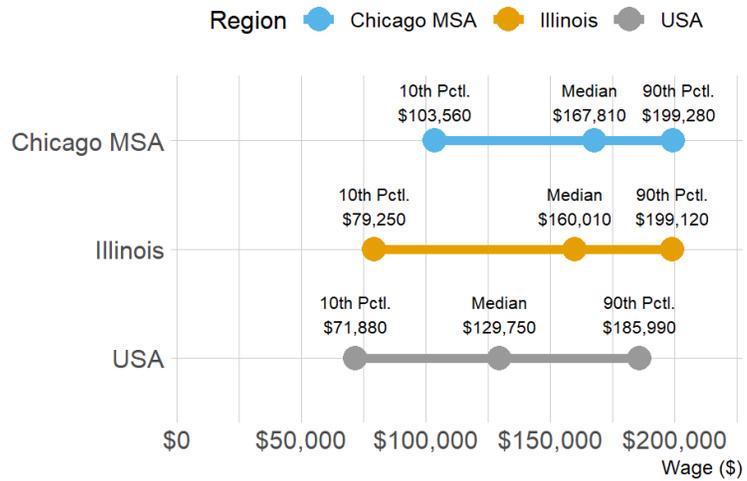
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Adobe Systems Adobe Acrobat, Enterprise resource planning ERP software, Microsoft Access, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 720 | 1.13 | \$167,810 |
| Illinois | 870 | 1.03 | \$160,010 |
| USA | 21,230 | - | \$129,750 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|------------------|----|
| Inform pilots about nearby planes or potentially hazardous conditions, such as weather, speed and direction of wind, or visibility problems. | Hourly or more | 98 |
| Issue landing and take-off authorizations or instructions. | Hourly or more | 96 |
| Provide flight path changes or directions to emergency landing fields for pilots traveling in bad weather or in emergency situations. | Yearly or less | 96 |
| Alert airport emergency services in cases of emergency or when aircraft are experiencing difficulties. | More than yearly | 96 |
| Transfer control of departing flights to traffic control centers and accept control of arriving flights. | Hourly or more | 96 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Airfield Operations Specialists

53-2022.00



Description: Ensure the safe takeoff and landing of commercial and military aircraft.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Airfield Operations Specialist, Airport Operations Agent

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

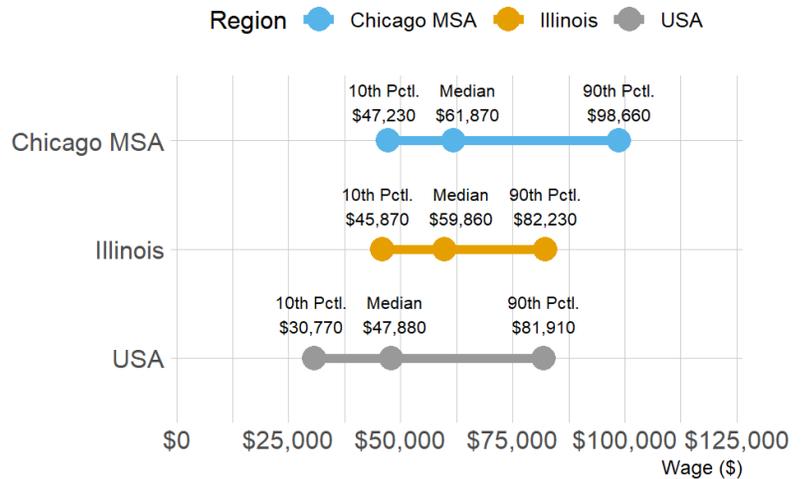
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Airport Certified Employee - Airport Trusted Agent

Hot Technologies: Adobe Systems Adobe Photoshop, Apache HTTP Server, Extensible markup language XML, Intuit QuickBooks, Linux, Microsoft Access, Microsoft Office Suite,

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 200 | 0.54 | \$61,870 |
| Illinois | - | - | \$59,860 |
| USA | 12,610 | - | \$47,880 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|---------------------|-------------------------|
| Inspect airfield conditions to ensure compliance with federal regulatory requirements. | Several times daily | 97 |
| Implement airfield safety procedures to ensure a safe operating environment for personnel and aircraft operation. | Daily | 96 |
| Conduct inspections of the airport property and perimeter to maintain controlled access to airfields. | Several times daily | 95 |
| Assist in responding to aircraft and medical emergencies. | Daily | 94 |
| Manage wildlife on and around airport grounds. | Several times daily | 93 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Heavy and Tractor-Trailer Truck Drivers

53-3032.00



Description: Drive a tractor-trailer combination or a truck with a capacity of at least 26,001 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Driver, Line Haul Driver, Log Truck Driver

Job Zone

Title: 2 - Some Preparation Needed

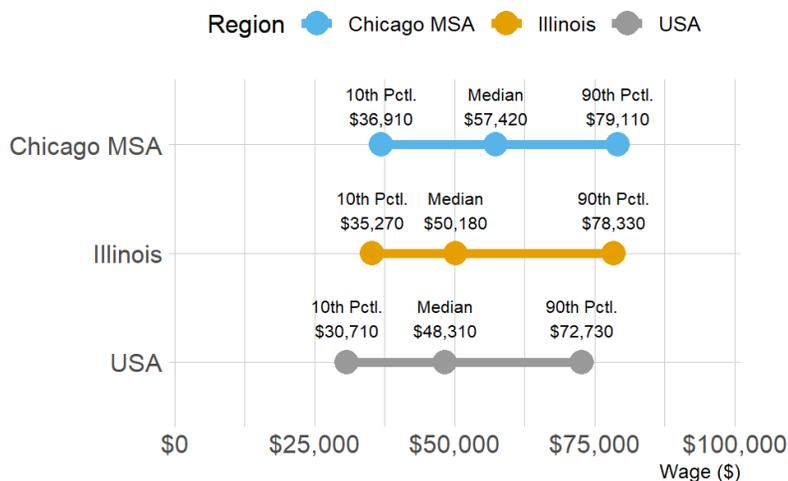
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, SAP business and customer relations management software, YouTube

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 54,600 | 0.95 | \$57,420 |
| Illinois | 72,770 | 0.96 | \$50,180 |
| USA | 1,903,420 | - | \$48,310 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Check vehicles to ensure that mechanical, safety, and emergency equipment is in good working order.

Daily 91

Follow appropriate safety procedures for transporting dangerous goods.

Daily 90

Maintain logs of working hours or of vehicle service or repair status, following applicable state and federal regulations.

Daily 88

Inspect loads to ensure that cargo is secure.

Several times daily 88

Maneuver trucks into loading or unloading positions, following signals from loading crew and checking that vehicle and loading equipment are properly positioned.

Daily 87



Bus Drivers, Transit and Intercity

53-3052.00



Description: Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bus Driver, Bus Operator, Charter Bus Driver

Job Zone

Title: 2 - Some Preparation Needed

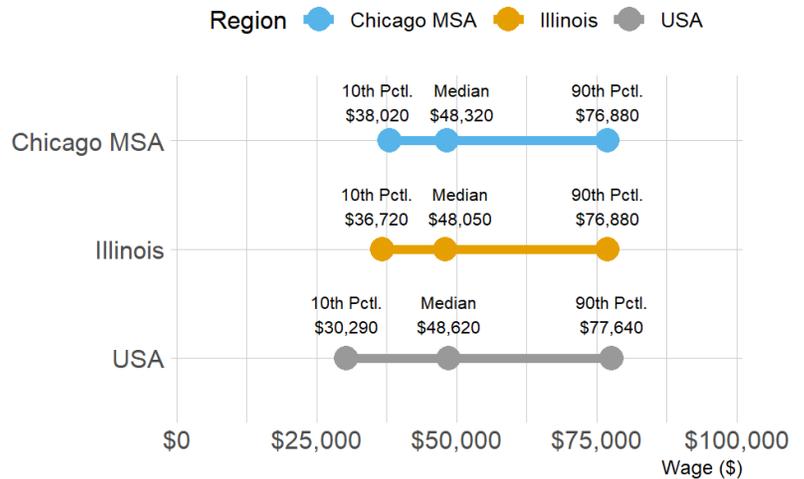
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 8,280 | 1.89 | \$48,320 |
| Illinois | 10,050 | 1.73 | \$48,050 |
| USA | 145,720 | - | \$48,620 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|----------------|----|
| Drive vehicles over specified routes or to specified destinations according to time schedules, complying with traffic regulations to ensure that passengers have a smooth and safe ride. | Hourly or more | 94 |
| Inspect vehicles and check gas, oil, and water levels prior to departure. | Daily | 91 |
| Park vehicles at loading areas so that passengers can board. | Hourly or more | 91 |
| Announce stops to passengers. | Hourly or more | 90 |
| Assist passengers, such as elderly or disabled individuals, on and off bus, ensure they are seated properly, help carry baggage, and answer questions about bus schedules or routes. | Daily | 87 |

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Subway and Streetcar Operators

53-4041.00



Description: Operate subway or elevated suburban trains with no separate locomotive, or electric-powered streetcar, to transport passengers. May handle fares.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Combined Rail Operator, Light Rail Operator, Light Rail Train Operator

| Job Zone | Region | Employment | Location Quotient | Median Wage |
|----------|--------|------------|-------------------|-------------|
| | USA | 10,310 | - | \$81,180 |

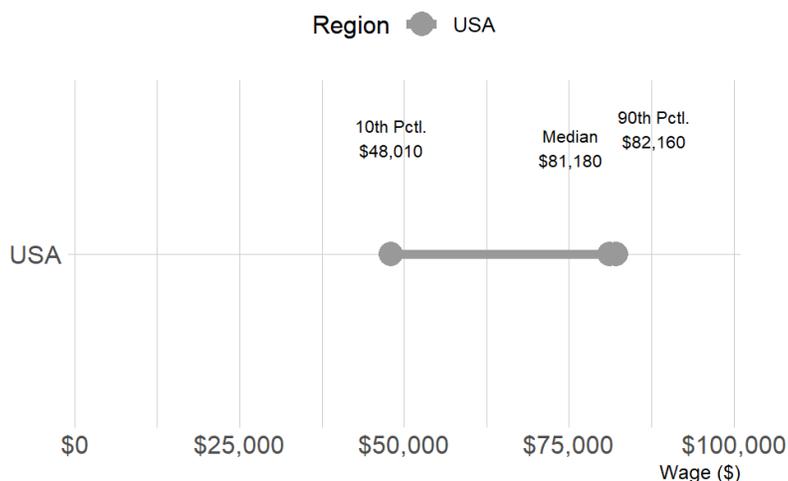
Title: 2 - Some Preparation Needed

Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-----------|-------------------------|
|---|-----------|-------------------------|

| | | |
|---|----------------|----|
| Monitor lights indicating obstructions or other trains ahead and watch for car and truck traffic at crossings to stay alert to potential hazards. | Hourly or more | 98 |
|---|----------------|----|

| | | |
|---|----------------|----|
| Operate controls to open and close transit vehicle doors. | Hourly or more | 97 |
|---|----------------|----|

| | | |
|--|----------------|----|
| Drive and control rail-guided public transportation, such as subways, elevated trains, and electric-powered streetcars, trams, or trolleys, to transport passengers. | Hourly or more | 97 |
|--|----------------|----|

| | | |
|--|-------|----|
| Report delays, mechanical problems, and emergencies to supervisors or dispatchers, using radios. | Daily | 94 |
|--|-------|----|

| | | |
|---|----------------|----|
| Regulate vehicle speed and the time spent at each stop to maintain schedules. | Hourly or more | 93 |
|---|----------------|----|



Sailors and Marine Oilers

53-5011.00



Description: Stand watch to look for obstructions in path of vessel, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Able Bodied Seaman (AB Seaman), Able Bodied Watchman (AB Watchman)

Job Zone

Title: 2 - Some Preparation Needed

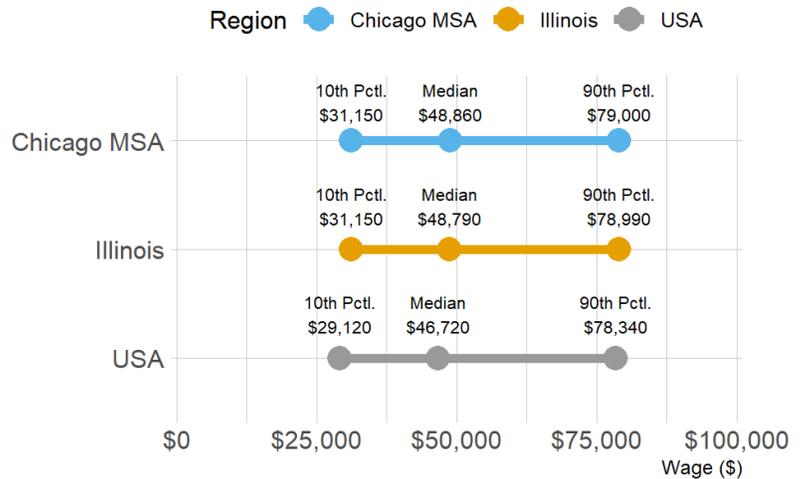
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 280 | 0.34 | \$48,860 |
| Illinois | 520 | 0.49 | \$48,790 |
| USA | 26,610 | – | \$46,720 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Tie barges together into tow units for tugboats to handle, inspecting barges periodically during voyages and disconnecting them when destinations are reached.

Several times daily

91

Handle lines to moor vessels to wharfs, to tie up vessels to other vessels, or to rig towing lines.

Daily

89

Attach hoses and operate pumps to transfer substances to and from liquid cargo tanks.

More than weekly

89

Stand watch in ships' bows or bridge wings to look for obstructions in a ship's path or to locate navigational aids, such as buoys or lighthouses.

Daily

85

Read pressure and temperature gauges or displays and record data in engineering logs.

Daily

85

Captains, Mates, and Pilots of Water Vessels

53-5021.00



Description: Command or supervise operations of ships and water vessels, such as tugboats and ferryboats. Required to hold license issued by U.S. Coast Guard.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Boat Captain, Boat Operator, Captain

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

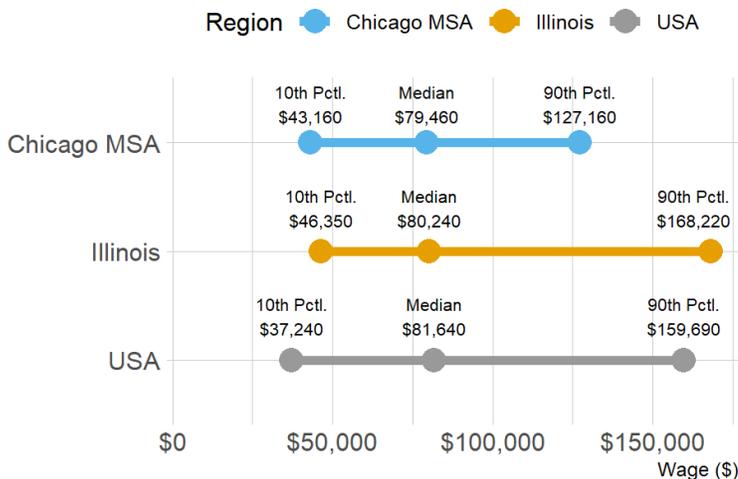
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Basic Cruising Certification, Basic Keelboat Certification, Coastal Navigation Certification, Coastal Passagemaking

Hot Technologies: Autodesk Revit, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 420 | 0.42 | \$79,460 |
| Illinois | 860 | 0.65 | \$80,240 |
| USA | 33,490 | - | \$81,640 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|---|----------------|-----|
| Direct courses and speeds of ships, based on specialized knowledge of local winds, weather, water depths, tides, currents, and hazards. | Hourly or more | 100 |
| Prevent ships under navigational control from engaging in unsafe operations. | Hourly or more | 98 |
| Serve as a vessel's docking master upon arrival at a port or at a berth. | Daily | 97 |
| Consult maps, charts, weather reports, or navigation equipment to determine and direct ship movements. | Hourly or more | 97 |
| Steer and operate vessels, using radios, depth finders, radars, lights, buoys, or lighthouses. | Hourly or more | 95 |



Ship Engineers

53-5031.00



Description: Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Barge Engineer, Engineer, Ferry Engineer

Job Zone

Title: 3 - Medium Preparation Needed

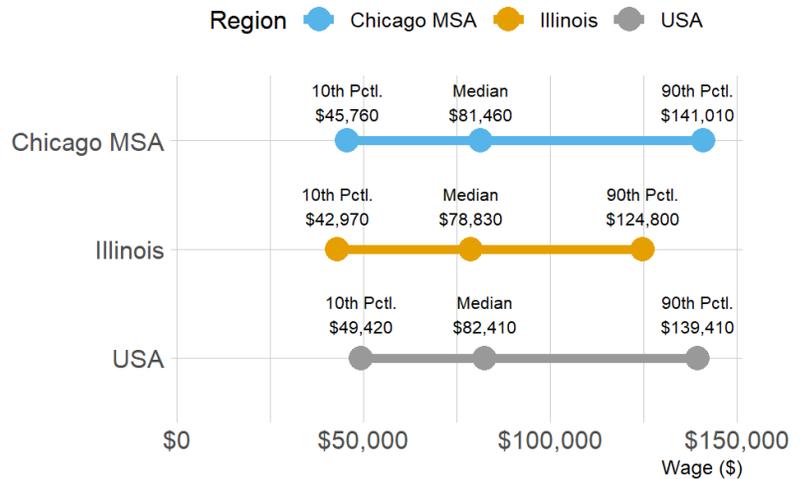
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Apple macOS, Enterprise resource planning ERP software, Microsoft Access, Microsoft Office Suite, Oracle software, Salesforce software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 90 | 0.39 | \$81,460 |
| Illinois | 150 | 0.50 | \$78,830 |
| USA | 7,650 | – | \$82,410 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Start engines to propel ships, and regulate engines and power transmissions to control speeds of ships, according to directions from captains or bridge computers.

Daily

89

Maintain or repair engines, electric motors, pumps, winches, or other mechanical or electrical equipment, or assist other crew members with maintenance or repair duties.

Daily

87

Monitor engine, machinery, or equipment indicators when vessels are underway, and report abnormalities to appropriate shipboard staff.

Several times daily

86

Perform or participate in emergency drills, as required.

More than weekly

86

Maintain complete records of engineering department activities, including machine operations.

Daily

86

Bridge and Lock Tenders

53-6011.00



Description: Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bridge Operator, Bridge Tender, Lock Tender

Job Zone

Title: 2 - Some Preparation Needed

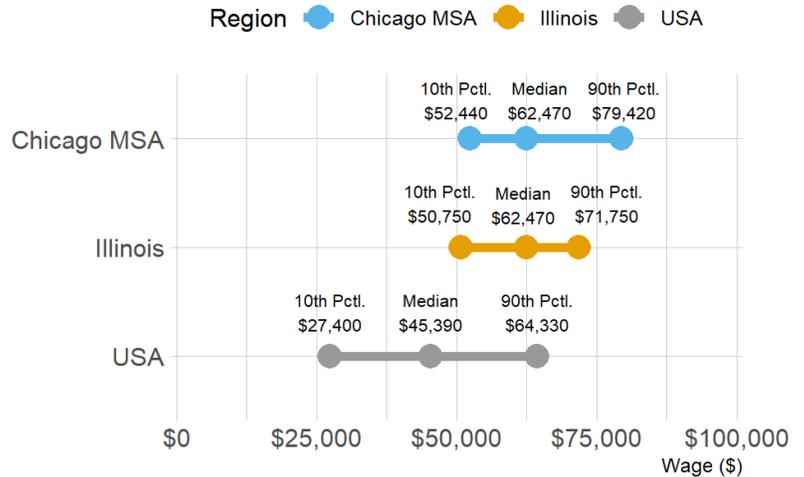
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, Oracle PeopleSoft, SAP business and customer relations management software, Virtual private networking VPN software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 120 | 0.96 | \$62,470 |
| Illinois | 290 | 1.78 | \$62,470 |
| USA | 4,040 | - | \$45,390 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|---------------------|----|
| Control machinery to open and close canal locks and dams, railroad or highway drawbridges, or horizontally or vertically adjustable bridges. | Hourly or more | 98 |
| Direct movements of vessels in locks or bridge areas, using signals, telecommunication equipment, or loudspeakers. | Hourly or more | 97 |
| Observe position and progress of vessels to ensure best use of lock spaces or bridge opening spaces. | Several times daily | 96 |
| Record names, types, and destinations of vessels passing through bridge openings or locks, and numbers of trains or vehicles crossing bridges. | Several times daily | 94 |
| Observe approaching vessels to determine size and speed, and listen for whistle signals indicating desire to pass. | Hourly or more | 93 |



Traffic Technicians

53-6041.00



Description: Conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions, under direction of traffic engineer.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Field Traffic Investigator, Traffic Analyst, Traffic Control Technician

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

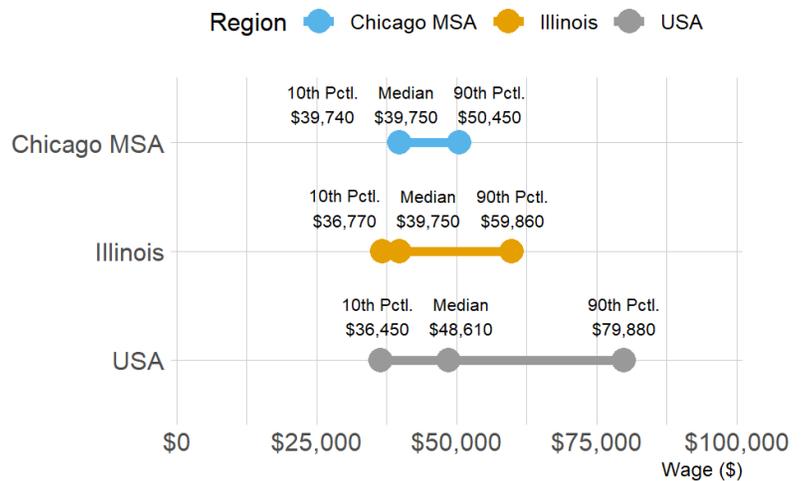
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Traffic Control Technician, Traffic Control Design Specialist, Traffic Control Supervisor, Guardrail Installer, Truck-Mounted Attenuator Operator

Hot Technologies: Autodesk AutoCAD, Bentley MicroStation, C++, Computer aided design and drafting software CADD, ESRI ArcGIS software, Microsoft Access

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | - | - | \$39,750 |
| Illinois | - | - | \$39,750 |
| USA | 7,770 | - | \$48,610 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Study traffic delays by noting times of delays, the numbers of vehicles affected, and vehicle speed through the delay area.

More than monthly

76

Interact with the public to answer traffic-related questions, respond to complaints or requests, or discuss traffic control ordinances, plans, policies, or procedures.

More than monthly

74

Prepare graphs, charts, diagrams, or other aids to illustrate observations or conclusions.

More than monthly

69

Transportation Inspectors

53-6051.00



Description: Inspect equipment or goods in connection with the safe transport of cargo or people.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Cargo Surveyor, Inspector, Marine Cargo Surveyor

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

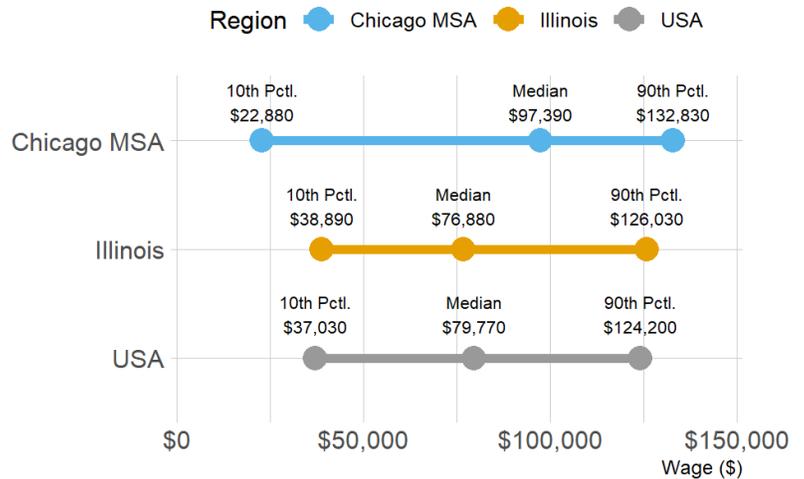
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Vehicle Maintenance Management and Inspection

Hot Technologies: Adobe Systems Adobe Acrobat, Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 340 | 0.45 | \$97,390 |
| Illinois | 740 | 0.74 | \$76,880 |
| USA | 25,070 | - | \$79,770 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|-------------------|-------------------------|
| Prepare and submit reports after completion of freight shipments. | More than weekly | 90 |
| Inspect shipments to ensure that freight is securely braced and blocked. | More than monthly | 89 |
| Record details about freight conditions, handling of freight, and any problems encountered. | More than monthly | 88 |
| Advise crews in techniques of stowing dangerous and heavy cargo. | More than yearly | 83 |
| Observe loading of freight to ensure that crews comply with procedures. | More than monthly | 82 |

Passenger Attendants

53-6061.00



Description: Provide services to ensure the safety of passengers aboard ships, buses, trains, or within the station or terminal.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Bus Aide, Bus Assistant, Bus Attendant

Job Zone

Title: 2 - Some Preparation Needed

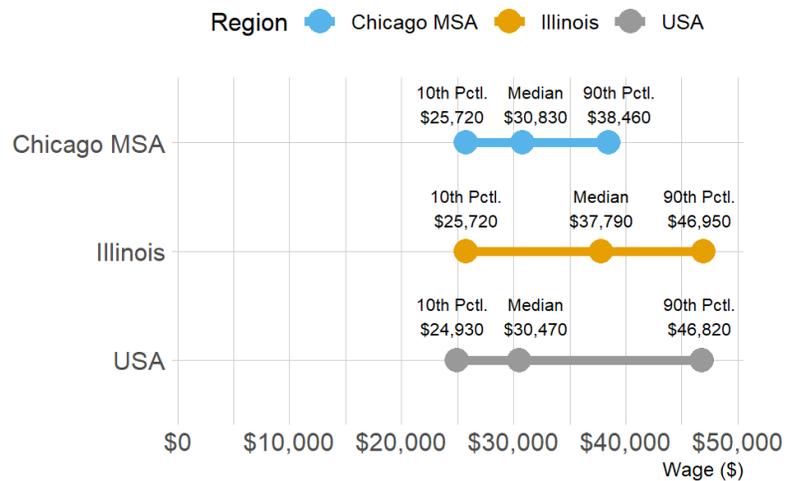
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 70 | 0.1 | \$30,830 |
| Illinois | 80 | 0.1 | \$37,790 |
| USA | 21,240 | – | \$30,470 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Secure passengers for transportation by buckling seatbelts or fastening wheelchairs with tie-down straps.

Daily 94

Provide boarding assistance to elderly, sick, or injured people.

Daily 89

Respond to passengers' questions, requests, or complaints.

Daily 83

Determine or facilitate seating arrangements.

Daily 79

Conveyor Operators and Tenders

53-7011.00



Description: Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Chipper Operator, Debarker Operator, Flumer

Job Zone

Title: 1 - Little or No Preparation Needed

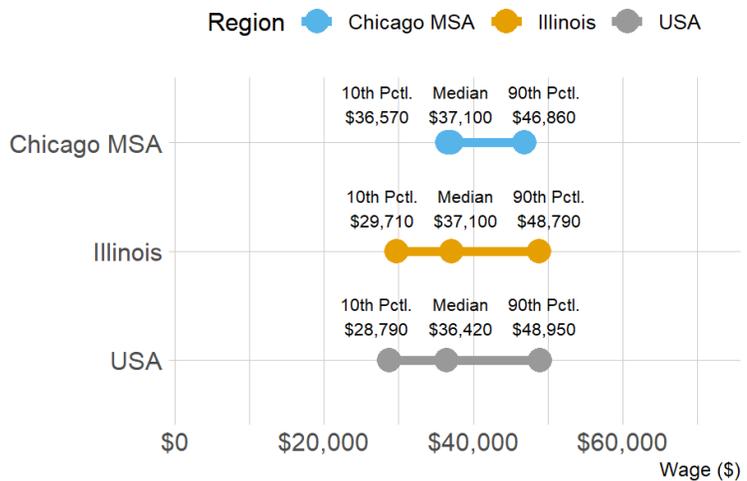
Education: May require a high school diploma or GED certificate.

Experience: Little or no previous work-related skill, knowledge, or experience is needed.

Training: A few days to a few months of training needed. Usually, an experienced worker could show you how to do the job.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 810 | 0.94 | \$37,100 |
| Illinois | 1,420 | 1.25 | \$37,100 |
| USA | 28,650 | - | \$36,420 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Inform supervisors of equipment malfunctions that need to be addressed.

More than weekly

90

Record production data such as weights, types, quantities, and storage locations of materials, as well as equipment performance problems and downtime.

Daily

89

Observe conveyor operations and monitor lights, dials, and gauges to maintain specified operating levels and to detect equipment malfunctions.

Daily

89

Load, unload, or adjust materials or products on conveyors by hand, by using lifts, hoists, and scoops, or by opening gates, chutes, or hoppers.

Hourly or more

88

Stop equipment or machinery and clear jams, using poles, bars, and hand tools, or remove damaged materials from conveyors.

Hourly or more

86



Crane and Tower Operators

53-7021.00



Description: Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Crane Operator, Heavy Equipment Operator, Machine Operator

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

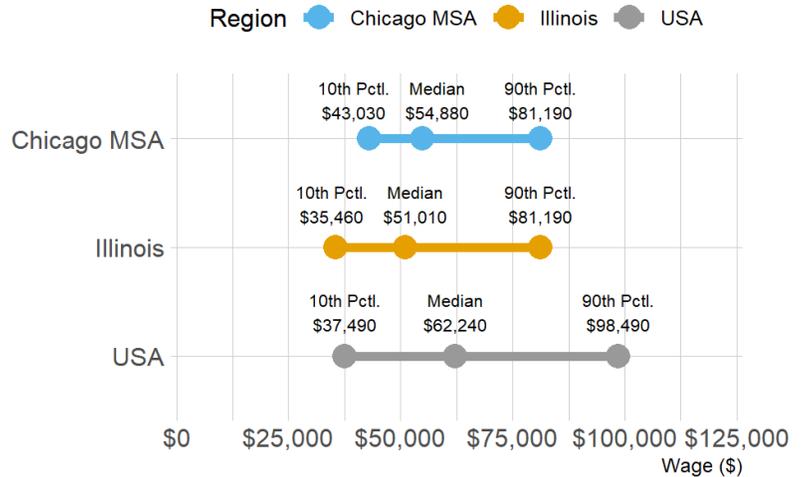
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Articulating Boom Loader, Telescopic Boom Cranes - Swing Cab, Articulating Boom Crane, Tower Crane Operator, Tower Crane, Lattice Boom Crane

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 1,600 | 1.23 | \$54,880 |
| Illinois | 980 | 0.57 | \$51,010 |
| USA | 43,400 | - | \$62,240 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|---|----------------|----|
| Determine load weights and check them against lifting capacities to prevent overload. | Daily | 94 |
| Move levers, depress foot pedals, or turn dials to operate cranes, cherry pickers, electromagnets, or other moving equipment for lifting, moving, or placing loads. | Hourly or more | 91 |
| Inspect cables or grappling devices for wear and install or replace cables, as needed. | Daily | 90 |
| Inspect and adjust crane mechanisms or lifting accessories to prevent malfunctions or damage. | Daily | 90 |
| Direct helpers engaged in placing blocking or outrigging under cranes. | Daily | 88 |



Hoist and Winch Operators

53-7041.00



Description: Operate or tend hoists or winches to lift and pull loads using power-operated cable equipment.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Hoist Operator, Hoistman, Material Handler

Job Zone

Title: 2 - Some Preparation Needed

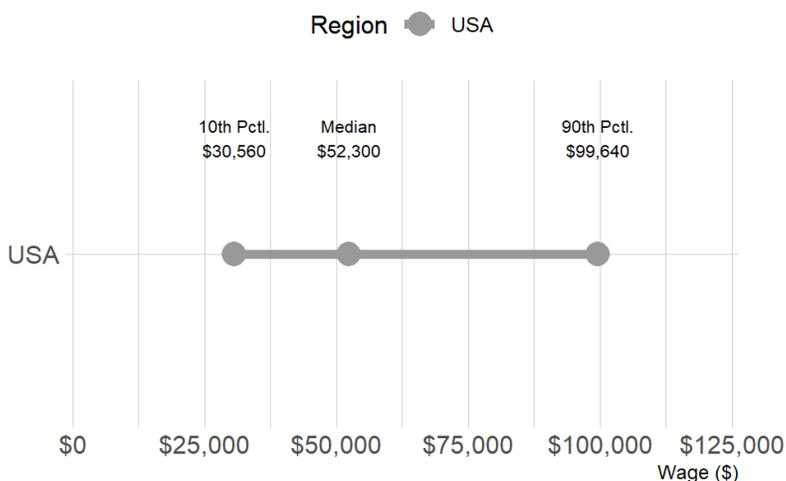
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite

| Region | Employment | Location Quotient | Median Wage |
|--------|------------|-------------------|-------------|
| USA | 2,610 | – | \$52,300 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Move levers, pedals, and throttles to stop, start, and regulate speeds of hoist or winch drums in response to hand, bell, buzzer, telephone, loud-speaker, or whistle signals, or by observing dial indicators or cable marks.

Hourly or more

92

Start engines of hoists or winches and use levers and pedals to wind or unwind cable on drums.

Hourly or more

90

Observe equipment gauges and indicators and hand signals of other workers to verify load positions or depths.

Hourly or more

89

Operate compressed air, diesel, electric, gasoline, or steam-driven hoists or winches to control movement of cableways, cages, derricks, draglines, loaders, railcars, or skips.

Several times daily

87

Move or reposition hoists, winches, loads and materials, manually or using equipment and machines such as trucks, cars, and hand trucks.

Daily

83

Industrial Truck and Tractor Operators

53-7051.00



Description: Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Checker Loader, Fork Lift Technician, Fork Truck Driver

Job Zone

Title: 2 - Some Preparation Needed

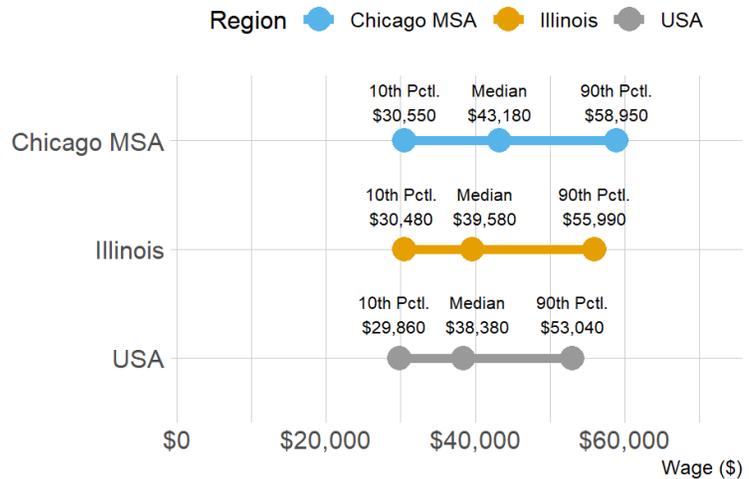
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 23,690 | 1.04 | \$43,180 |
| Illinois | 31,760 | 1.05 | \$39,580 |
| USA | 758,290 | - | \$38,380 |



Top 5 Core Tasks According to Current Job Holders

Importance Frequency (out of 100)

Move levers or controls that operate lifting devices, such as forklifts, lift beams with swivel-hooks, hoists, or elevating platforms, to load, unload, transport, or stack material.

Hourly or more **92**

Move controls to drive gasoline- or electric-powered trucks, cars, or tractors and transport materials between loading, processing, and storage areas.

Hourly or more **90**

Position lifting devices under, over, or around loaded pallets, skids, or boxes and secure material or products for transport to designated areas.

Hourly or more **90**

Manually or mechanically load or unload materials from pallets, skids, platforms, cars, lifting devices, or other transport vehicles.

Daily **90**

Inspect product load for accuracy and safely move it around the warehouse or facility to ensure timely and complete delivery.

Daily **87**

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Laborers and Freight, Stock, and Material Movers, Hand

53-7062.00



Description: Manually move freight, stock, luggage, or other materials, or perform other general labor. Includes all manual laborers not elsewhere classified.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Dock Worker, Laborer, Line Tender

Job Zone

Title: 2 - Some Preparation Needed

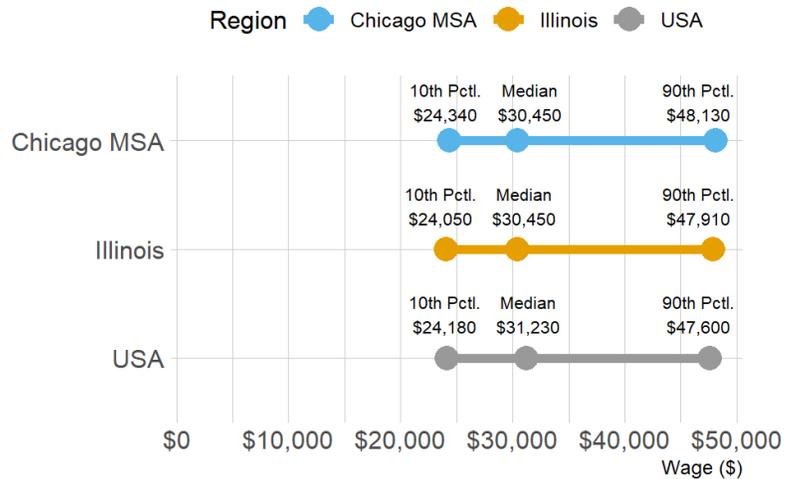
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Autodesk AutoCAD, Google Docs, IBM Notes, Microsoft Office Suite, Oracle software, SAP business and customer relations management software

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 152,330 | 1.86 | \$30,450 |
| Illinois | 188,520 | 1.73 | \$30,450 |
| USA | 2,729,010 | - | \$31,230 |



| Top 5 Core Tasks According to Current Job Holders | Frequency | Importance (out of 100) |
|---|----------------|-------------------------|
| Move freight, stock, or other materials to and from storage or production areas, loading docks, delivery vehicles, ships, or containers, by hand or using trucks, tractors, or other equipment. | Hourly or more | 95 |
| Sort cargo before loading and unloading. | Daily | 89 |
| Attach identifying tags to containers or mark them with identifying information. | Daily | 88 |
| Read work orders or receive oral instructions to determine work assignments or material or equipment needs. | Daily | 86 |

Pump Operators, Except Wellhead Pumpers

53-7072.00



Description: Tend, control, or operate power-driven, stationary, or portable pumps and manifold systems to transfer gases, oil, other liquids, slurries, or powdered materials to and from various vessels and processes.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Boom Pump Operator, Chemical Pumper, Day Light Relief Operator

Job Zone

Title: 2 - Some Preparation Needed

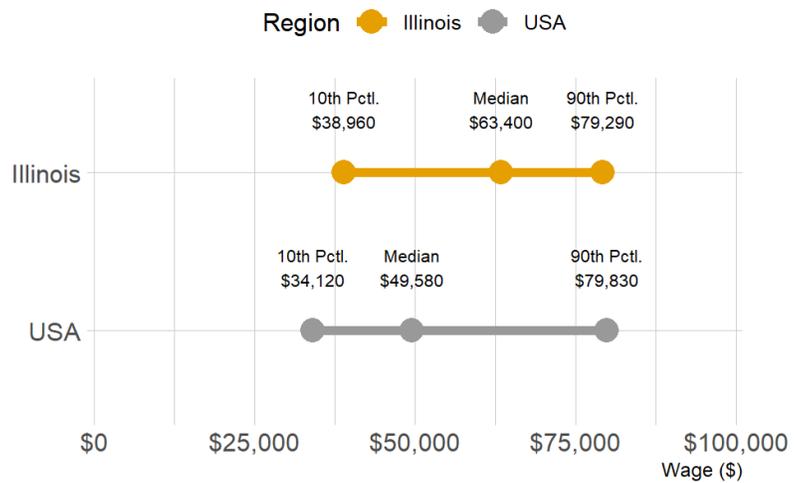
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Hot Technologies: Microsoft Office Suite, Supervisory control and data acquisition SCADA software

| Region | Employment | Location Quotient | Median Wage |
|----------|------------|-------------------|-------------|
| Illinois | 50 | 0.12 | \$63,400 |
| USA | 10,600 | - | \$49,580 |



Top 5 Core Tasks According to Current Job Holders

| Task | Frequency | Importance (out of 100) |
|------|-----------|-------------------------|
|------|-----------|-------------------------|

| | | |
|--|-------|----|
| Monitor gauges and flowmeters and inspect equipment to ensure that tank levels, temperatures, chemical amounts, and pressures are at specified levels, reporting abnormalities as necessary. | Daily | 90 |
|--|-------|----|

| | | |
|--|-------|----|
| Record operating data such as products and quantities pumped, stocks used, gauging results, and operating times. | Daily | 88 |
|--|-------|----|

| | | |
|---|-------|----|
| Plan movement of products through lines to processing, storage, and shipping units, using knowledge of interconnections and capacities of pipelines, valve manifolds, pumps, and tankage. | Daily | 88 |
|---|-------|----|

| | | |
|---|-------|----|
| Communicate with other workers, using signals, radios, or telephones, to start and stop flows of materials or substances. | Daily | 87 |
|---|-------|----|

| | | |
|---|-------|----|
| Turn valves and start pumps to start or regulate flows of substances such as gases, liquids, slurries, or powdered materials. | Daily | 87 |
|---|-------|----|

Sources: US Department of Labor O*NET 26.3 Database (May 2022 Release); Bureau of Labor Statistics Occupational Employment and Wage Estimates - National, State, and Metropolitan (May 2021 Release)



Refuse and Recyclable Material Collectors

53-7081.00



Description: Collect and dump refuse or recyclable materials from containers into truck. May drive truck.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Front Load Trash Truck Driver, Garbage Collector, Garbage Man

Job Zone

Title: 2 - Some Preparation Needed

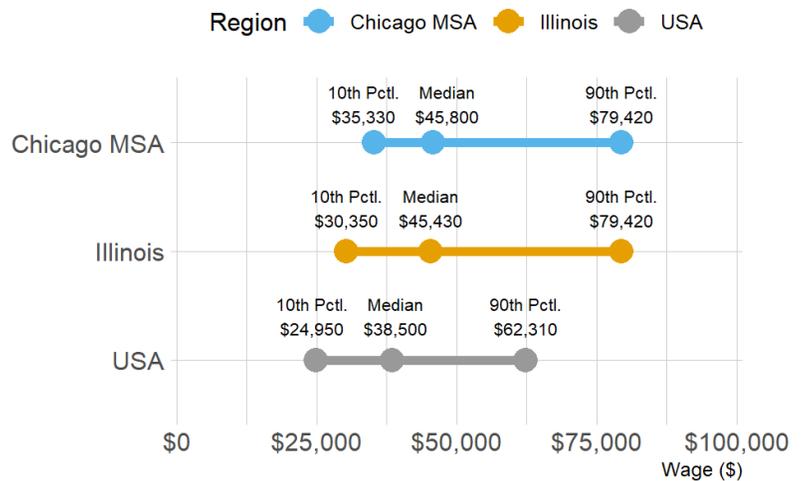
Education: Usually require a high school diploma.

Experience: Some previous work-related skill, knowledge, or experience is needed.

Training: A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Certified Transfer Station Systems - Technical Associate, Certified Integrated Solid Waste Management - Technical Associate

| Region | Employment | Location Quotient | Median Wage |
|-------------|------------|-------------------|-------------|
| Chicago MSA | 3,220 | 0.85 | \$45,800 |
| Illinois | 4,540 | 0.90 | \$45,430 |
| USA | 126,050 | - | \$38,500 |



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

| | | |
|--|----------------|----|
| Inspect trucks prior to beginning routes to ensure safe operating condition. | Daily | 95 |
| Drive trucks, following established routes, through residential streets or alleys or through business or industrial areas. | Daily | 95 |
| Operate automated or semi-automated hoisting devices that raise refuse bins and dump contents into openings in truck bodies. | Hourly or more | 95 |
| Operate equipment that compresses collected refuse. | Daily | 93 |
| Dump refuse or recyclable materials at disposal sites. | Daily | 92 |