

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.

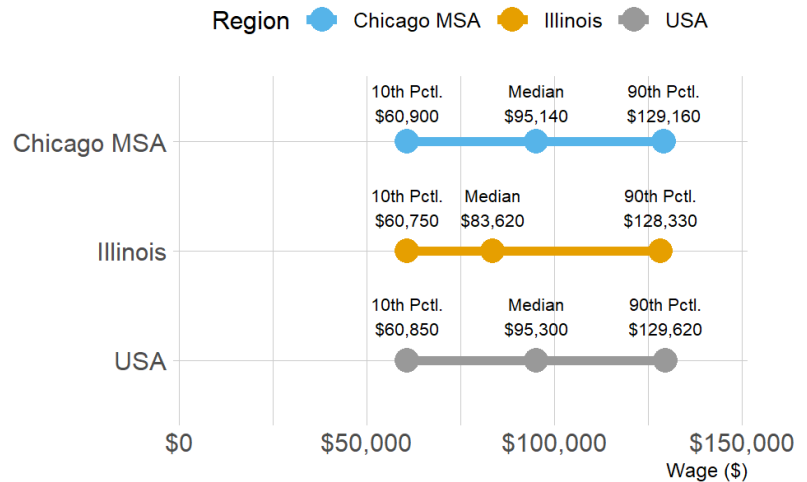
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

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

Importance
Frequency (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

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