

## 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.

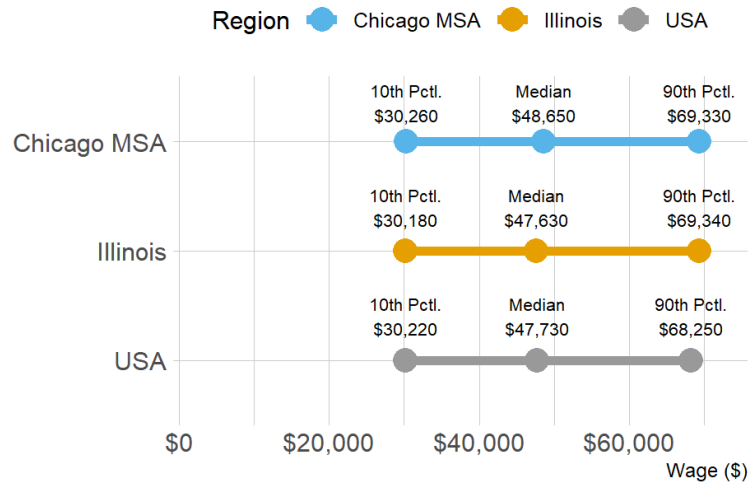
**Experience:** Previous work-related skill, knowledge, or experience is required.

**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