

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](#)

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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.

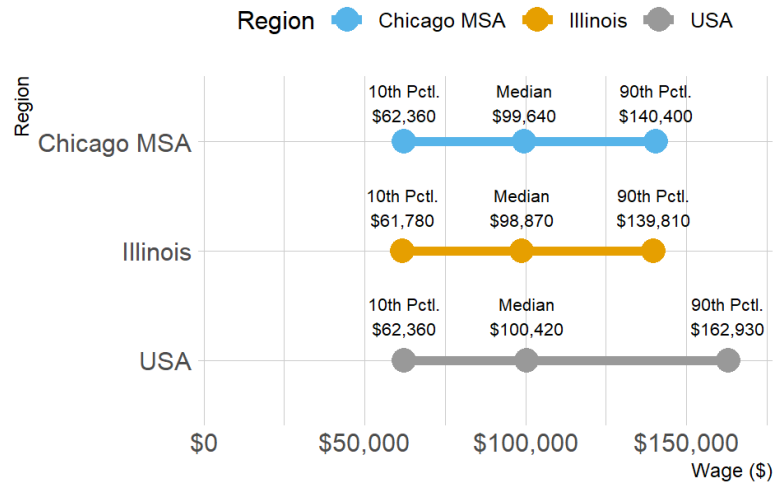
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

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