

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

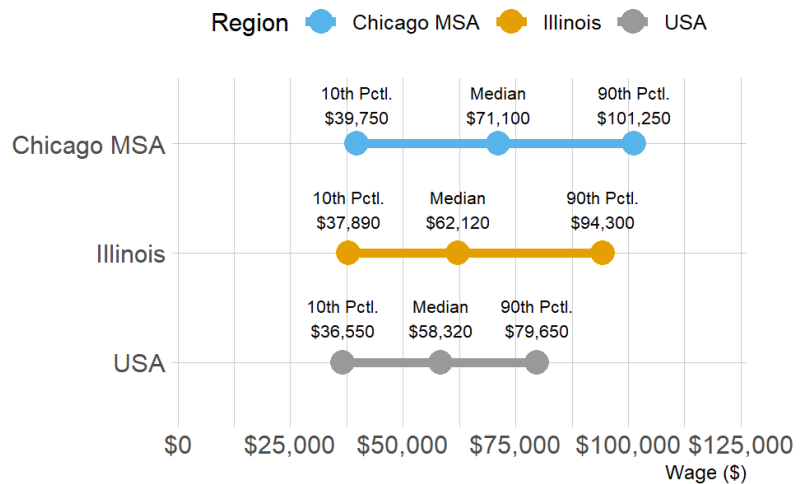
Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

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	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