

Civil Engineer (17-2051.00)

At-a-Glance Statistics



Sample Job Titles

Bridge/Structure Inspection Team Leader, City Engineer, Civil Engineer, Civil Engineering Manager, County Engineer, Design Engineer, Project Engineer, Railroad Design Consultant, Structural Engineer, Traffic Engineer

Key Tasks

- Inspect project sites to monitor progress and ensure conformance to design specifications and safety or sanitation standards.
- Compute load and grade requirements, water flow rates, or material stress factors to determine design specifications.
- Provide technical advice to industrial or managerial personnel regarding design, construction, program modifications, or structural repairs.
- Test soils or materials to determine the adequacy and strength of foundations, concrete, asphalt, or steel.
- Manage and direct the construction, operations, or maintenance activities at project site.
- Prepare or present public reports on topics such as bid proposals, deeds, environmental impact statements, or property and right-of-way descriptions.
- Design energy-efficient or environmentally sound civil structures.
- Identify environmental risks and develop risk management strategies for civil engineering projects.
- Conduct studies of traffic patterns or environmental conditions to identify engineering problems and assess potential project impact.
- Design or engineer systems to efficiently dispose of chemical, biological, or other toxic wastes.
- Develop or implement engineering solutions to clean up industrial accidents or other contaminated sites.

Education and Training



Bachelor's
Degree

43%



Master's
Degree

26%



Post-
Baccalaureate
Certificate

13%

Top Industries



Government
Professional, Scientific,
and Technical Services

Number Employed



327,000 positions

28,300 job openings

Median Wages



Hourly

\$41.65



Annually

\$86,640

Top Ten States for Occupational Percentage Growth

