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.

All data sourced from O’NET OnLine (2018) [https://www.onetonline.org].
Education and Training

Bachelor's Degree: 43%
Master's Degree: 26%
Post-Baccalaureate Certificate: 13%

Median Wages

Hourly: $41.65
Annually: $86,640

Top Industries

Government
Professional, Scientific, and Technical Services

Number Employed

327,000 positions
28,300 job openings

Top Ten States for Occupational Percentage Growth

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<tr>
<th>State</th>
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<tr>
<td>UT</td>
<td>36%</td>
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