Program Description

Civil Engineers design, construct, supervise, operate, and maintain large construction projects and systems, including roads, buildings, airports, tunnels, dams, bridges, and systems for water supply and sewage treatment. Many civil engineers work in design, construction, research, and education and hold supervisory or administrative positions ranging from supervisor of a construction site to working as a city engineer.

Environmental Engineers use the principles of engineering, soil science, biology, and chemistry to develop solutions to environmental problems. They are involved in efforts to improve recycling, waste disposal, public health, and water and air pollution control. Environmental engineers also address global issues such as unsafe drinking water, climate change, and environmental sustainability. Environmental engineers conduct hazardous-waste management studies in which they evaluate the significance of the hazard and advise on treating and containing it. They also design systems for municipal and industrial water supplies and industrial wastewater treatment, and research the environmental impact of proposed construction projects. Environmental engineers also work in government and develop regulations to prevent environmental mishaps.

Sample Occupations
- Civil Engineer or Environmental Engineer
- Health and Safety Engineers & Inspector
- Architectural and Engineering Manager
- Civil Designer
- Structural Engineer
- Life and Environmental Scientist, Geoscientist
- Mining and Geological Engineer
- Water and Wastewater Engineer
- Logisticians
- Construction Manager
- Transportation Systems Engineer
- Aircraft and Flight Engineer
- Petroleum Engineer
- Healthcare Technical Occupations

Sample Work Settings
- Commercial and Industrial Machinery and Equipment
- Specialized Design Services
- Transit Systems
- Oil and Gas Extraction
- Construction Management

Job Search & Career Planning Resources

Use Career Center online resources (GWork, GoingGlobal, Vault) Keywords: Civil, Environmental, Geotechnical, Structural, Water Resources, Transportation

Job Search Sites

Engineering Central: www.engcen.com
Engineering Jobs: www.engineerjobs.com
Graduating Engineer: www.graduatingengineer.com
Engineering Careers: www.thecareerengineer.com

Professional Organizations

Tips: Join professional organizations to network and find out more about your field.
- American Society of Civil Engineers www.asce.org
- United States Society of Dams www.usdams.org
- American Concrete Institute www.concrete.org
- Earthquake Engineers Research Institute www.eeri.org
- American Academy of Engineers and Scientists www.aaes.org

Top Employer in this field

URS Corporation, HDR, Inc. AECOM Technology Corporation, Jacobs Engineering Group, United State Army Corps of Engineers