



Civil engineering entails the design, construction and maintenance of the physical and naturally built environment. Civil engineers are responsible for infrastructure including roads, bridges, canals, dams, airports, sewage systems, pipelines, structural components of buildings, and railways.



Possible Career Options

- Building Control Surveyor
- CAD Technician
- Consulting Civil Engineer
- Contracting Civil Engineer
- Design Engineer
- Estimator
- Nuclear Engineer
- Site Engineer
- Structural Engineer
- Water Engineer



Possible Employers

- Engineering Firms
- Non-profit Organizations
- Governmental Organizations
- Colleges/Universities
- Research Firms
- Consulting Firms



Skills Required

- Proficiency in oral and written communications
- Detail-oriented
- Ability to organize, analyze and interpret numerical data
- Creative approach to problem solving
- Critical thinking skills
- Ability to interpret data
- Ability to work independently or as part of a team
- Ability to concentrate for long periods of time



Personal Attributes

- Achievement-oriented
- Capacity for detail and order
- Capacity for analytical and logical thinking
- Patient
- Capacity for precision
- Thorough
- Skills with numbers
- Resourceful
- Have integrity
- Imaginative



Ways to Get Experience

- Doing an internship
- Working part-time or volunteering in an engineering firm
- Volunteering as a research assistant in a university's civil engineering department
- Joining a professional organization or related student club