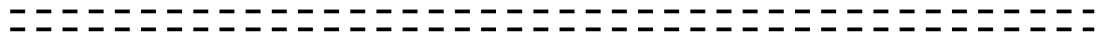


Engineering Careers

Have you ever dreamt about flying around the world in an airplane that you designed? What about riding the elevator to the 121st floor of the skyscraper that you conceived? If you have ever thought about exploring the vast universe, devising innovative ways to conserve energy or saving lives with technological breakthroughs, then a career in engineering may be for you.



There are a number of different engineering disciplines. The major fields of civil, mechanical, electrical and chemical can be further broken down to include agricultural, geological, industrial, materials, naval, ocean, robotics, transportation and many more. The engineering field has become so vast that specialization is a must for most individuals. For just about every engineering interest, there is a field of study.

Civil engineers are responsible for our public services. They design highways, bridges, dams airports and urban transit systems. Civil engineers are also responsible for providing society with safe, clean drinking water and treating wastewater.

Electrical, electronics and computer engineers design power systems to conserve energy and protect the environment, help design space shuttles and satellites, develop new and faster computer systems and design Electro-optics-laser techniques for doctors performing delicate surgery.

Chemical engineers use the raw materials of nature to design a variety of products from plastics, coatings and adhesives to makeup and wonder drugs.

Structural engineers make sure that buildings, bridges and other structures are strong and safe.

Mechanical engineers work in specific industries, building and designing nuclear plants, automobiles, railways or spacecraft.

All of the work of the structural, mechanical, civil and electrical engineers rests upon the firm foundation provided by geotechnical engineers. Firm foundations are their primary focus because a foundation goes down through many layers of soil, each with a different density, water content and stability.

Private practice or consulting engineering is a career that provides many opportunities for the entrepreneurial engineer. Generally a consulting engineer has about 10 years of experience as an employee of government, private industry or a consulting engineering firm before starting his or her own practice, or becoming a principal in a firm. Working as a consulting engineer allows you the freedom to work on a variety of projects and the ability to rise as fast as your talents take you.