Electrical engineering is concerned with the creation, design and management of electricity to help power the world. Electrical engineers understand the physics and mathematics of electricity, electromagnetism and electronics and how to apply these to systems in order to process information and transmit energy. Electrical engineers work with a wide array of electronic devices, from smartphones to power stations.

Possible Career Options

- Acoustic consultant
- Aerospace engineer
- Broadcast engineer
- Control and instrumentation engineer
- Design engineer
- Electrical engineer
- Electronics engineer
- Nuclear engineer
- Sound engineer
- Special effects technician
**Possible Employers**

- Engineering firms
- Non-profit organizations
- Governmental organizations
- Colleges/universities
- Research firms
- Consulting firms
- Tech firms
- Defense 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
- Achievement oriented
- Capacity for detail and order
- Capacity for analytical and logical thinking
- Patient
- Capacity for precision
- Thorough
- Skills with numbers
- Resourceful
- Have integrity

**Personal Attributes**

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