Program Description

Electrical Engineers design, develop, test, install, and supervise the manufacturing of electrical equipment such as electric motors, radar and navigation systems, communication systems, transportation equipment and vehicles, and power generation equipments. In addition, they design and develop broadcast and communication systems, from portable music players to global positioning systems (GPS). Electronic engineering typically deals with the study of electronic systems and problems associated with these systems, such as electric power transmission and electrical machines.

Sample Occupations

- Electrical Engineer
- Digital Design Engineer
- Electrical Design Engineer
- Project Engineer
- Electrical Controls Engineer
- Test Engineer
- Semiconductor Engineer
- Hardware Design Engineer
- Broadcast Engineer
- Circuits Engineer
- Electrical Project Engineer
- Energy Engineer
- Photonics Engineer

Sample Work Settings

- Professional Schools
- College or Universities
- Federal Government
- Engineering Service Firms
- Utility Companies
- Manufacturing Firms
- Transportation Systems
- Waste Management Firms
- Security Installation Firms
- Software Publishing
  - Navigational, Measuring, Electromedical, and Control Instruments Manufacturing
- Electric Power Generation, Transmission, and Distribution

Top Employers In This Field:

- ABB Group: [www.abb.com](http://www.abb.com)
- Eaton Corporation: [www.eaton.com](http://www.eaton.com)
- Emerson Electric: [www.emerson.com](http://www.emerson.com)
- General Electric: [www.ge.com](http://www.ge.com)
- TMEIC: [www.tmeic.com](http://www.tmeic.com)
- Boeing: [www.boeing.com](http://www.boeing.com)
- Verizon: [www.verizon.com](http://www.verizon.com)

Job Search & Career Planning Resources

Use Career Center Online Resources

(GWork, GoingGlobal, Vault)

Keywords: Power, Robotics, Energy, Audio/Visual Installation, Electrical Design

Job Search Sites:

- Engineering Central: [www.engcen.com](http://www.engcen.com)
- Engineering Jobs: [www.engineerjobs.com](http://www.engineerjobs.com)
- Graduating Engineers: [www.graduatingengineer.com](http://www.graduatingengineer.com)

Professional Organizations

Tip: Join professional organizations to network and find out more about your field. Association of Energy Engineers [http://www.aeecenter.org/](http://www.aeecenter.org/)
Institute of Electrical and Electronics Engineers [www.ieee.org](http://www.ieee.org)
Association of Facilities Engineers [www.afe.org/](http://www.afe.org/)
National Society of Professional Engineers [www.nspe.org/](http://www.nspe.org/)
National Academy of Engineering [www.nae.edu](http://www.nae.edu)

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