

**WHAT CAN I DO WITH A MAJOR IN:
ELECTRICAL ENGINEERING**

**Career Center for Science and Engineering
University of Minnesota
50 Lind Hall/ 207 Church Street SE
Minneapolis, MN 55455
612-624-4090**

What Activities Could Electrical Engineering Majors Do?

From geographical information systems that can continuously provide the location of a vehicle to giant electric power generators, electrical and electronics engineers are responsible for a wide range of technologies. Electrical Engineers design, develop, document and test electrical and electronic equipment and systems. This includes utility systems, electric motors, and machinery as well as wiring in buildings, automobiles, and airplanes. Electronic equipment includes radar, computers, communication equipment and home entertainment. They apply the concepts and knowledge of science to help solve problems and generally specialize in a major field such as power distribution, integrated circuits, computers, manufacturing or communications. There is a growing need for electrical engineers specializing in industrial robot and automation systems as well as laser and electro-optics.

What Industries Could Electrical Engineering Majors Explore?

Acoustics	Antennas and Propagation	Broadcasting	Electrical Insulation
Geoscience	Circuits and Systems	Magnetics	Power Electronics
Robotics	Packaging	Ultrasonics	Oceanic Engineering
Automotive	Nuclear & Plasma Sciences	Industrial/Food Products	Lasers & Electro-optics
Supercomputing	Telecommunications	Automation	Genetics
HVAC Systems	Medical Technologies	Healthcare	Supercomputing

What Employers Hire Electrical Engineering Majors?

Caterpillar	Cargill	Cummins Engine Co.	August Technology Co.	Avery Dennison
Clorox Co.	3M	Beckman Coulter	Alliant Techsystems	Cessna Aircraft
The Boeing Co.	Capital One	Bristol-Meyers Squibb	Dow Chemical Co.	Eaton Co.
US Military	Dell Computers	General Mills Inc.	Guidant Co.	IBM
Ingersoll Rand	ExxonMobil	Fisher Controls	Dupont	Universities
Kohler Co.	Microsoft Co.	Lockheed Martin	Medtronic	Nortel Networks
PolarFab	Schlumberger	Seagate Technology	Square D	United Defense

What Are Some Full-Time Job Titles For Electrical Engineering Majors?

Applications Analyst	Component Design Engineer	Plant Engineer	Project Engineer
Avionics Engineer	Design Automation Engineer	Electrical Engineer	Sales Engineer
Packaging Engineer	Automation Engineer	Circuit Design Engineer	Optics Engineer
Reliability Engineer	Integration Test Specialist	Electro-optics Engineer	Control System Specialist
Electronic Test Engineer	Computer Support Analyst	Research Engineer	Optics Test Engineer

What Are Some Useful Websites For Electrical Engineering Majors?

Electrical Engineering Jobs	www.electricalengineer.com
Engineer Jobs	engineerjobs.com
Electrical Engineering News	www.electricalengineer.com
Electrical Engineers Reference Page	www.eecentral.com
Electronics and EE Laboratory	www.eeel.nist.gov

Information on this page was compiled from the Occupational Outlook Handbook, the Encyclopedia of Careers and Vocational Guidance, University of Minnesota departmental websites, and student-reported data.