



What can I do with my Major?

ELECTRICAL ENGINEERING

SAMPLE JOB TITLES

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[Electrical Engineer](#)
[Electrical and Electronics Repairers](#)
[Electronics Engineer, Excluding Computer Electrical Drafter](#)
[Electrical Engineering Technologist](#)
[Electrical Power-Line workers](#)
[Electrical and Electronic Engineering Technicians](#)
[Electrical and Electronic Equipment Assemblers](#)
[Engineering Teacher, Postsecondary](#)
[Electromechanical Engineering Technologist](#)
[Power Electronics Engineer](#)
[Instrumentation Engineer](#)
[Hardware Engineer](#)
[Software Engineer](#)
[Product Manager](#)
[Electronic Drafter](#)
[Control Research and Development Engineers](#)
[Network Design Engineer](#)
[Circuit Design Engineer](#)
[Systems Engineer](#)
[Electromagnetic Engineer](#)
[Laser Technology Engineer](#)
[Advertisement Representative](#)
[Social-Urban Planner](#)
[Employee Assistance Plan Coordinator](#)

OTHER RESOURCES

[Institute for Electrical and Electronics Engineering](#)

OVERVIEW OF MAJOR

Electrical engineering is the study of the laws of electrical energy and the principles of engineering in order to apply them to the generation, transmission, and use of electricity. With knowledge of electrical phenomena and technology, those trained in electrical engineering can design everything from power generating systems in dams to tiny electronic circuits for spacecraft, as well as electronic components that run computers, televisions, stereo systems, and automated factories. Four well-recognized branches of electrical engineering in which individuals may concentrate include power, communications, electronics, and control systems. Other areas recognized by the Institute of Electronics and Electrical Engineers for career possibilities include circuits and devices, industrial applications, electromagnetics and radiation, computers, engineering and the human environment, and signals and applications.

NATURE OF WORK

Electrical and electronics engineers design, develop, test, and supervise the manufacture of electrical and electronic equipment. Some of this equipment includes power-generating, controlling, and transmission devices used by electrical utilities, as well as lighting and wiring in buildings, automobiles, aircraft, radar and navigation systems, computer and office equipment, and broadcast and communications systems. Electrical and electronics engineers specialize in different areas, such as power generation, transmission, and distribution, communications, computer electronics, and electrical equipment manufacturing. Electrical engineers design new products, develop maintenance schedules, test equipment, solve operating problems, and estimate the time and cost of engineering projects.

UCONN RESOURCES

[Department of Computer Science and Engineering](#)
[The Institute of Electrical and Electronics Engineers](#)
[Optical Society of America](#)
[Society of Photonic Instrumentation Engineers](#)
[Engineering Student Leadership Council](#)
[Tau Beta Pi](#)
[Society of Hispanic Professional Engineers](#)
[National Society of Black Engineers](#)
[Women in Math, Science and Engineering](#)
[Society of Women Engineers](#)

