

Bachelor of Science in

Electrical Engineering



COLLEGE OF ENGINEERING
AND COMPUTER SCIENCE

Why major in electrical engineering?

The Bachelor of Science in Electrical Engineering provides students with the ability to apply advanced design and analysis, knowledge of electronic circuits, power, computer architecture, microprocessors, communication networks and control systems in an effective and professional manner. Our laboratory experiments are designed to emphasize the fundamentals of engineering practice and to provide practical experience on a scale small enough for lab work but large enough to simulate field conditions.

Why choose Cal State Fullerton?

- Distinguished faculty
- Preparation for graduate work
- Student participation in research
- Industrial partnerships
- Accreditation - the B.S. degree in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>



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What types of career opportunities are available?

Electrical engineers work in the areas of design and analysis of digital and analog electronic circuits, power, computer architecture, microprocessors, digital signal processing, communication networks and control systems. Cal State Fullerton graduates are employed in many fields, including manufacturing, transportation, construction, business, education, government, and health care. The B.S. in Electrical Engineering prepares students for a variety of careers depending upon the specialization selected. The range of opportunities is virtually unlimited. Electrical engineers participate in designing products that meet human needs for today and tomorrow—from huge power-generating systems in dams to the tiny electronic circuits that keep spacecraft on a correct trajectory a million miles from earth. They often create the electronic components that run computers, cars, television sets, stereo systems, navigation systems, GPS, PDAs, USB devices and automated factories or seek ways to improve the transmission of messages by laser beams.

What types of scholarships and financial aid are available?

Scholarships such as the Alumni Association Scholarship and the Emmett D. Burnett Memorial Scholarship are awarded to eligible students in the College of Engineering and Computer Science. Additional scholarships are available to students in the major from off-campus sources such as professional societies, civic foundations and corporations, and are listed online at www.fullerton.edu/ecs/resources/scholarships.php and www.fullerton.edu/financialaid/general/scholarships.php

Are there special programs or internships available?

Electrical Engineering majors may take advantage of the opportunities provided by the Center for Internships and Community Engagement (CICE). Internships allow students the opportunity to gain work experience, network and develop industry contacts, solidify academic and career goals, earn money while learning and explore various career options. In addition, the Center for Academic Support in Engineering and Computer Science (CASECS) provides services that help educationally-disadvantaged students achieve a higher level of academic success in engineering and computer science. For more information about CASECS, call 657-278-3879.