

Life After Graduation

With the rapid pace of technological development, the Department of Electrical and Computer Engineering strives to educate its graduates to lead the field in careers as design engineers, technical sales engineers, project managers and testing and research engineers. Graduates are prepared to face the future with the ability to address issues as diverse as national security, renewable energy, disaster relief, communication and entertainment.

Recent employers include Mercedes-Benz, Southern Company, the Strategic Missile and Defense Command, ExxonMobil, NASA, Suzuki, BMW, NSA, CIA, AT&T, Briggs & Stratton, Hewlett-Packard, Northrop Grumman, Motorola, ChevronTexaco, Honda, ADTRAN, CharBroil, Neptune, PhaseIV Engineering, Harris, International Paper, Michelin, Southwire, National Instruments and Dynetics.

The Auburn Advantage

Auburn University has provided instruction, research and outreach to benefit the state and nation for more than 150 years and is among a distinctive group of universities designated as Land, Sea and Space Grant institutions. Auburn makes a nearly \$5 billion economic contribution to the state each year, has more than 250,000 graduates and provides 130 degree programs to more than 24,000 graduate and undergraduate students.

Contact Us

Department of Electrical and Computer Engineering
200 Broun Hall
Auburn, AL 36849
334.844.1800
eceadvisor@auburn.edu
www.eng.auburn.edu/elec

Office of Engineering Student Services
1210 Shelby Center
Auburn, AL 36849
334.844.4310
engineering@auburn.edu
www.eng.auburn.edu/ess



AUBURN UNIVERSITY

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COLLEGE OF ENGINEERING

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Auburn University is an equal opportunity educational institution/employer.

AUBURN
UNIVERSITY



Electrical and Computer
ENGINEERING



Welcome to the Department of Electrical and Computer Engineering

Auburn University's Department of Electrical and Computer Engineering, one of nine departments in the Samuel Ginn College of Engineering, maintains its reputation for success by attracting talented students and providing them with a quality education via a faculty of international standing. As a result, graduates of the department are uniquely qualified to pursue careers in industries as diverse as power distribution and biomedical research.



Undergraduate Curriculum

Bachelor of Electrical Engineering

Auburn's electrical engineering curriculum emphasizes seven areas, including circuit analysis, communications, control systems, digital computer design, electronics, electromagnetics and power systems. The major, offered by the department for more than a century, is a broad program designed to provide an education that offers graduates the flexibility to work within a variety of industries.

Bachelor of Electrical Engineering – Computer Option

Computer engineering focuses on the design, production and testing of computer hardware, including components, networks and peripherals. This curriculum is a thoughtfully constructed plan for providing a firm footing in circuit analysis, digital systems and electronics in preparation for specialized study in computer system design, computer architecture and information networks. Additionally, computer engineers complete a series of software courses giving them the skills necessary to function at the highest level of computer engineering.

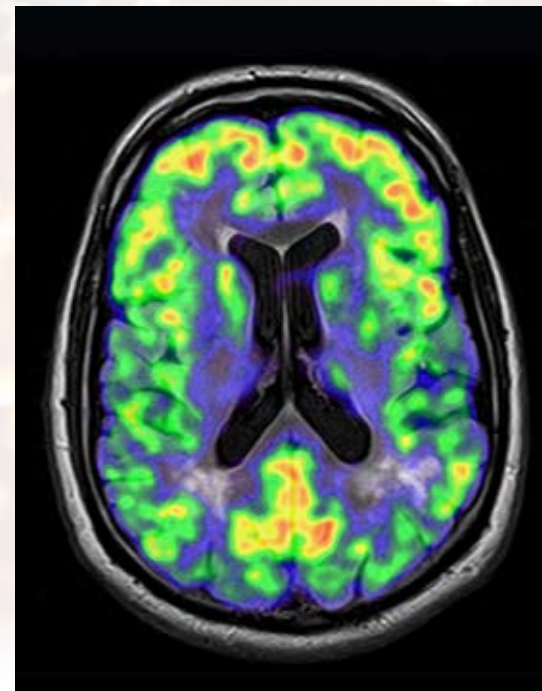
Bachelor of Wireless Engineering – Hardware Option

The newest of the three majors, wireless hardware engineering addresses the growing needs of the wireless technology industry by producing wireless engineers with the ability to understand all aspects of existing wireless hardware; this includes the study of integrated circuit chips, communication devices and network switching equipment, while providing the skills and understanding needed to innovate and create the next generation of wireless technology. The curriculum's foundation rests on a series of courses in circuit analysis, communications, digital computing, electronics and electromagnetics with a specialized component of wireless communication and networks classes.

Research and Laboratories

Faculty members in the Department of Electrical and Computer Engineering conduct research into many different aspects of the field. Faculty involvement in original research creates opportunities for undergraduates to be exposed to the latest industry developments during classroom instruction. Additionally, students are encouraged to pursue opportunities to gain hands-on experience through undergraduate research under the direction of experienced faculty researchers in one of these state-of-the-art facilities:

- ▶ Alabama Micro/Nano Science and Technology Center (AMNSTC)
- ▶ Laboratory for Electronics Assembly and Packaging (LEAP)
- ▶ Wireless Engineering Research and Education Center (WEREC)
- ▶ Auburn University Magnetic Resonance Imaging (MRI) Research Center



Extracurricular Opportunities

Auburn engineering students can participate in a variety of activities beyond the classroom, gaining experience with teamwork and project management. Electrical and computer engineering students are encouraged to participate in campus organizations, such as:

- ▶ Eta Kappa Nu honor society
- ▶ Society of Women Engineers
- ▶ Cupola Engineering Ambassadors
- ▶ Engineering Student Council
- ▶ Solar Car Team
- ▶ SPaRC Robotics Team
- ▶ National Society of Black Engineers
- ▶ Tau Beta Pi engineering honor society
- ▶ Institute of Electrical and Electronics Engineers

For more information, visit www.eng.auburn.edu/organizations

Scholarships

The College of Engineering and the Department of Electrical and Computer Engineering provide scholarship opportunities to students at every stage of their academic career. No application is required for most university or college-wide scholarships.

For information about these offerings, visit us on the Web at www.eng.auburn.edu/scholarships

