Wireless engineering is a rapidly growing discipline with enormous impact in the workplace and in people's daily lives. It involves the hardware and software theory and technologies to enable the efficient and reliable exchange of information via electromagnetic waves, such as radio waves, ultraviolet, infrared and optical. In addition to development of the next-generation, wireless communication technologies, like 5G wireless, WiFi6 and beyond, wireless technology has also found wide applications, such as the industrial Internet of Things, satellite communications, localization, navigation and tracking (i.e., GPS), autonomous driving, unmanned aerial vehicles, robotics, e-health care, supply chain management and entertainment.

Wireless engineering expertise is in great demand by wireless service providers, network equipment companies, handset manufacturers, test and measurement equipment companies, application developers, government and the broader industry.

Developed with the support of wireless industry leaders, Auburn’s wireless engineering program is the first of its kind in the nation. The program is hosted in the Department of Electrical and Computer Engineering and the Wireless Engineering Research and Education Center (WEREC), to provide students a technical foundation to succeed in the rapidly growing wireless industry.

The WEREC comprises faculty and industry leaders with world-renowned expertise to offer one of the best student-centered engineering experiences in the wireless field.

Auburn's Wireless Engineering Research and Education Center (WEREC) is the focal point for cross-disciplinary wireless activities. Such interaction among disciplines provides an unmatched creative and educational environment for students interested in research and hands-on experience in the wide world of wireless.

Bachelor of Wireless Engineering

The curriculum emphasizes engineering theory and practice needed to design new generations of wireless systems, including theoretical foundations, hands-on laboratory experiments and oral and written communications skills. Freshmen and sophomores study basic sciences, mathematics and the humanities. Juniors and seniors are exposed to engineering fundamentals and engineering economics, as well as coursework specific to wireless engineering, focusing on the design of wireless hardware such as integrated circuit chips, wireless communications devices and network switching equipment, as well as communication theory, algorithm design and networking protocols/standards. The curriculum includes courses in circuit analysis, communications, digital systems, electronics, electromagnetism and wireless communications and networks.

For information about academic programs and minors, visit www.eng.auburn.edu/programs
Nationwide, there is a shortage of engineers who can design wireless systems and communication hardware and software. Potential employers include members of the wireless industry, such as Agilent, AT&T and Verizon, as well as manufacturers of products that use wireless systems ranging from automobiles to airlines to advanced computers. The average starting salary of wireless engineering graduates is comparable to salaries of electrical, computer and software engineering graduates.

The College of Engineering and the Wireless Engineering Program provide scholarship opportunities to students at every stage of their academic career. To be eligible for scholarships at Auburn University, all students must apply through AUSOM.

For information about engineering scholarships, visit www.eng.auburn.edu/scholarships

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

- Association for Computing Machinery
- Institute of Electrical and Electronics Engineers (IEEE)
- Institute of Electrical and Electronics Engineers (IEEE) Computer Society

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

Auburn University is an equal opportunity educational institution/employer.

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