Electrical and Computer Engineering

Chair

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Undergraduate majors: computer science and engineering (B.S.E.); electrical engineering (B.S.E.)
Graduate degrees: M.S. in electrical and computer engineering; Ph.D. in electrical and computer engineering
Faculty: https://engineering.uiowa.edu/people/ece-people
Website: https://ece.engineering.uiowa.edu/

Electrical engineers and computer engineers make vital contributions to nearly all facets of modern society through their work in areas such as the internet of things (IoT), artificial intelligence, deep learning, computer systems, software applications, medical imaging, robotics, wireless communications, and fiber optics. From smart technologies to high-definition television, cellular telephones, and computer networks, the contributions of electrical and computer engineers are constantly reinventing the world.

Many benefits that have sprung from electrical and computer engineering technology now are taken for granted—noninvasive imaging of the brain and other internal organs, astonishing views of the solar system's outer planets, and wireless telecommunications. Electrical and computer engineers also play crucial roles in major emerging technologies, such as driverless vehicles, smart cities, and human genomics.

As the United States strives to retain or enlarge its share of national and international markets, electrical and computer engineers will play a more important role in fostering innovation, increasing productivity, and creating intelligent systems to improve the quality of life for residents.

Electrical and computer engineers work in research, design, development, manufacturing, sales, market analysis, consulting, field service, and management. They are employed in computer, semiconductor, software, aerospace, telecommunication, medical, radio, television, and power industries, and many graduates pursue entrepreneurial ventures.