University centers with which ECE faculty work include the Applied Research Center, the Frank Reidy Research Center for Bioelectrics, the Laser and Plasma Engineering Institute, the Virginia Institute for Photovoltaics, and the Virginia Modeling, Analysis and Simulation Center. ECE faculty also collaborate at additional facilities in the Hampton Roads area, including NASA Langley Research Center and Jefferson Lab.

Financial Support
Graduate teaching and research assistantships are available to highly qualified graduate students pursuing graduate degrees in ECE. Students awarded assistantships are required to work in the classroom or laboratories, assisting faculty in teaching undergraduate courses and doing research. A limited number of graduate fellowships are also available to students pursuing doctoral degrees. All graduate assistantships and fellowships include a stipend along with a tuition waiver of up to nine credits/semester, and a subsidy for the mandatory federal health insurance fees.

Careers
After graduation, our MS, ME and PhD graduates are employed as electrical and computer engineers supporting industries like automotive, manufacturing, systems integration, shipbuilding, aerospace, defense and telecommunications, etc. They are also employed as researchers by private research and development labs or by federally funded organizations (such as Jefferson Lab, NASA, or the Naval Research Laboratories). Some of our former doctoral students have also gone into academic careers doing postdoctoral fellowships or are working in universities as faculty members.

A Great Place to Live and Work
Old Dominion University is located in Norfolk, in southeastern Virginia, known as Hampton Roads, an area which was at the crossroads of many events that shaped America: the first European settlers in the “New World,” the American Revolution and the Civil War. The marks of those experiences continue to make the region a rich place to explore. Norfolk is located in close proximity to popular vacation spots such as Virginia Beach (20 minutes away), Colonial Williamsburg and Busch Gardens, while three hours away is the U.S. capital, Washington, D.C., with some of the greatest museums and monuments in the world.

Application deadlines and requirements

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Complete an online application, submit official transcripts from all colleges and universities attended, GRE test scores, letters of recommendation, current CV/resume, and an essay outlining graduate education goals and interests.

Contact
Graduate Program Director
231 Kaufman Hall, Norfolk, VA 23529
Phone: 757-683-3741
Fax: 757-683-3220
www.odu.edu/ece

Graduate Programs in Electrical and Computer Engineering
Electrical and Computer Engineering Graduate Degrees

The Department of Electrical and Computer Engineering (ECE) in the Frank Batten College of Engineering and Technology at Old Dominion University offers master’s and doctoral level graduate degree programs, which prepare students for leadership roles in engineering careers with industry, government, research organizations, or educational institutions through advanced coursework and challenging research projects.

- The Master of Science is intended for students who want the opportunity to obtain some expertise in research in a specific ECE area. For the MS degree, students must take eight courses beyond their BS degree, do research under direct advising by an ECE faculty member in their chosen area of specialization, and write and defend an original thesis.

- The Master of Engineering is intended for students who want to get broader knowledge in ECE. ME degree students have two study options: either take 10 courses beyond their BS degree and pass a Master Comprehensive Exam, or take nine courses beyond the BS degree and do a master project with an ECE faculty mentor.

- The PhD is awarded to candidates who have displayed an in-depth understanding of the subject matter and demonstrated the ability to make an original contribution to knowledge in their chosen field of specialty. For the PhD, students must take eight courses beyond their master’s degree, five of which must be at the doctoral (800) level. PhD students must also pass diagnostic and candidacy exams, work on advanced research under direct advising of an ECE faculty member, and write and defend an original dissertation.

Department Research

The 2015 Carnegie Classification of Institutions of Higher Education lists Old Dominion University in the category of doctoral universities with higher research activity, and the ECE department has been ranked by the National Science Foundation in the top 25 percent for federally funded research among ECE departments in the United States. ECE faculty perform world-class research in the following areas:

- Cyber-Physical Systems: computer vision and computational modeling; controls; communications and networking; security and hardware.

- Medical/Biological Systems, Methods and Devices: signal processing for medical and biological applications; plasma medicine; bioelectrics; medical image processing and analysis.


The ECE department has research laboratories focusing on advanced signal processing in engineering and neuroscience (ASPEN); applied plasma technology; computer vision; cybersecurity, communications and networking; medical imaging, diagnosis and analysis; and systems research.