About Our Program

NC State University’s Department of Electrical and Computer Engineering is nationally and internationally recognized as one of the premier engineering programs in the world.

Our faculty and students have earned international recognition for their strong multi-disciplinary and collaborative research.

The department’s areas of expertise include:

- Bioelectronics Engineering
- Computer Architecture and Systems
- Communications and Signal Processing
- Controls, Robotics and Mechatronics
- Electronic Circuits and Systems
- Nanoelectronics and Photonics
- Networking
- Power Electronics & Power Systems
- Renewable Energy

Our department serves as a statewide focal point for innovation, entrepreneurship, and economic development. ECE attracts many of the best and brightest students from around the world and our graduates are aggressively recruited by leading engineering firms, start-ups, corporations, government agencies, and research universities.


NC State’s extraordinary “Centennial Campus” offers a collegial setting for corporate, government, and non-profit organizations to work side-by-side with NC State innovators to solve real-world problems. This revolutionary campus-based research park promotes ongoing research and collaboration between industry located on the Centennial Campus and NC State students, faculty, and staff.

Program Statistics

ECE Undergraduate Students

- Average SAT: 1170-1350
- Average High School GPA: 3.9-4.4
- Salary: $66K*

ECE Graduate Students

- 3rd Largest in the Nation (600+ students)
- Salary: $73K (EE) and $81K (CPE)*

*Numbers based on average starting salary provided by the National Association of Colleges and Employers (NACE) for summer 2013 bachelor’s and master’s recipients.
Quality of Life
The Raleigh-Durham area is consistently listed as one of the best places to live in the country. Located just a few miles from the “epicenter of innovation” – Research Triangle Park – our students and graduates have abundant opportunities for internships, co-ops, and employment with leading technology companies. When it’s time to relax and take a break, the beaches and mountains of North Carolina are an easy drive from Raleigh.

World-Class Facilities
We offer state-of-the-art teaching and research facilities, including 10 research centers, 42 teaching and research laboratories, and a 40,000-square-foot cleanroom. ECE is a major participant in the National Science Foundation’s Future Renewable Electric Energy Delivery and Management (FREEDM) Systems Center – dedicated to finding long-term solutions for secure, sustainable, and environmentally-friendly energy – and the Nanosystems Engineering Research Center (NERC) for Advanced Self-Powered Systems of Integrated Sensors and Technologies (ASSIST) – who are developing and employing nano-enabled energy harvesting, energy storage, nanodevices and sensors to create innovative battery-free, body-powered, and wearable health monitoring systems.

Faculty Leaders
Our elite ECE faculty includes 5 Alumni Distinguished Professors, 20 IEEE Fellows, and 13 National Science Foundation CAREER award winners (presented to the nation’s most promising young faculty members). Dr. B. Jayant Baliga has been awarded the National Medal of Technology and Innovation, the nation’s highest honor for technological achievement. Dr. Alex Huang developed “smart transformers” that made MIT Technology Review’s list of the world’s 10 most important emerging technologies in 2011. The U.S. Army’s Commander’s Award for Public Service was awarded to Dr. Michael Steer - the only civilian to have received it.

Investment in the Future
At NC State, we believe you’ll get a significant return on your investment - a first-rate education from a comprehensive university. And we aren’t the only ones who think so. NC State was ranked 4th by the Princeton Review and 5th by U.S. News & World Report for “best overall public university value.” As one of the nation’s leading land-grant institutions, founded on the principle of helping others help themselves, educational parity is not just our commitment, it’s our promise.