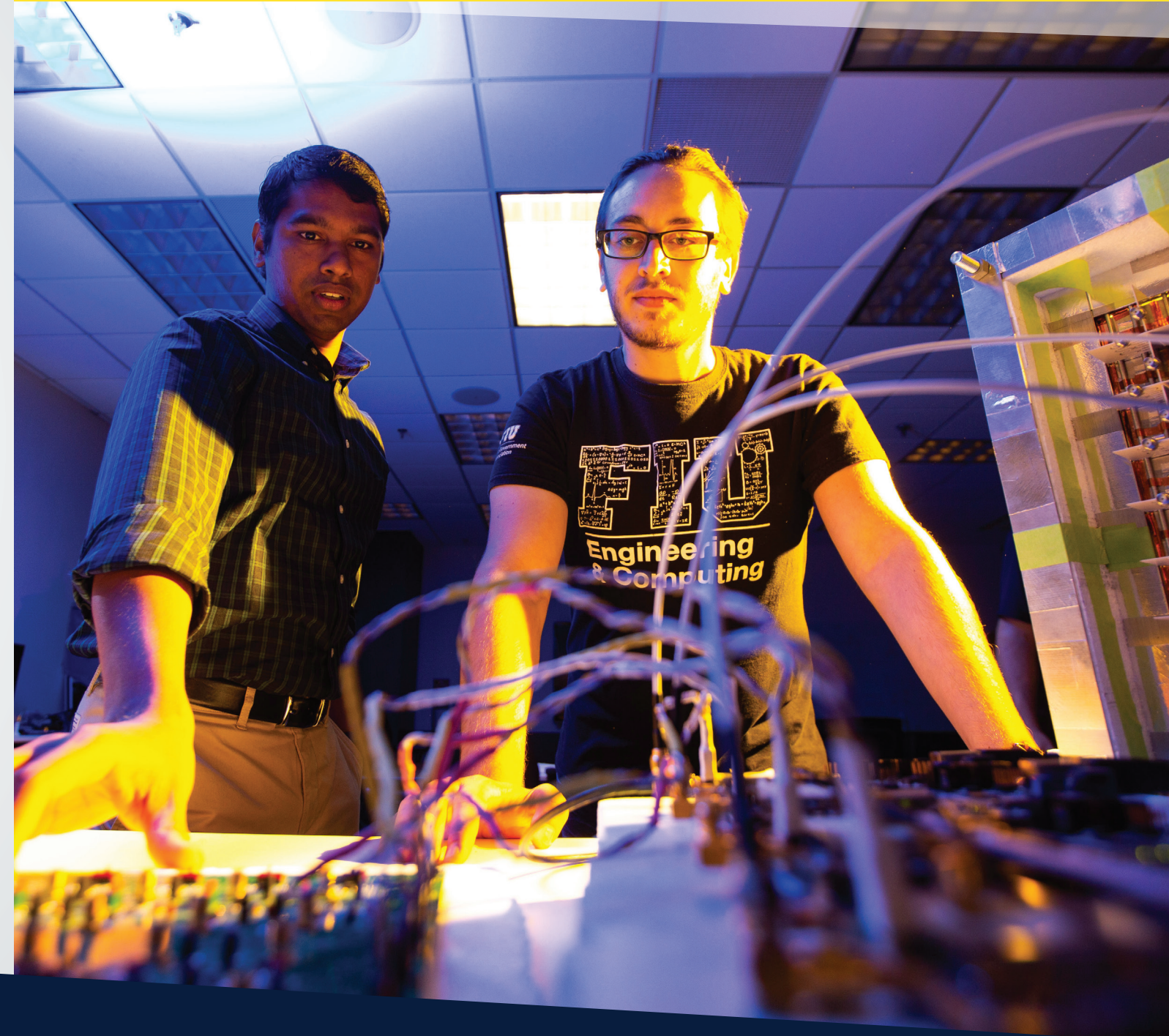


As a member of one of the country's top-tier research universities, the **College of Engineering & Computing (CEC)** is actively engaged in cutting-edge studies and education and is home to top-level research laboratories and facilities. CEC has two schools — Moss School of Construction, Infrastructure and Sustainability; and the School of Computing and Information Sciences — and four departments — Biomedical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, and Mechanical and Materials Engineering.

By the Numbers



ELECTRICAL AND COMPUTER ENGINEERING

FIU Engineering & Computing

engineering.fiu.edu
Florida International University
10555 West Flagler Street | Miami, FL 33174



FIU_CEC



FIUEngineeringAndComputing



FIU_CEC

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Whatsapp: 786-702-0031

FIU Engineering & Computing

FIU's Department of Electrical and Computer Engineering (ECE) is a leading resource for electrical and computer engineering education, training, research and technology development in the United States, and a nationally recognized program driven by excellence in research.

As a part of the College of Engineering & Computing, students enjoy experiential learning opportunities and close interaction with **WorldsAhead** faculty. Through internship opportunities in the industry and hands-on research activities in cutting-edge laboratories, graduates are prepared to hit the ground running in their chosen careers.

RESEARCH

The Department of Electrical and Computer Engineering (ECE) is recognized for its pioneering research in the areas of radio frequency (RF) and microwave engineering, Internet of Things (IoT) and energy cybersecurity. RF and microwave engineering examines the development of disruptive technologies, from antennas to millimeter waves. IoT faculty, post-docs and students focus on keeping smart devices safe with innovative technology such as continuous authentication on wearable devices. The IoT curriculum concentrates on hardware, software, wireless communications, cybersecurity and privacy. Researchers in the area of energy cybersecurity examine the power and security aspects of the nation's smart grid and how to prevent and respond to cyber intrusions to the grid.

FACULTY

ECE faculty members have considerable industrial experience and many maintain active consulting roles to provide current and relevant knowledge to students in classroom and research settings. Currently, the department has over 30 faculty members who excel in a broad range of concentrations such as cybersecurity, digital signal processing, Internet of Things (IoT), nano-technology, power and energy, radio frequency and microwave engineering. ECE faculty members are committed to obtaining patents and grants to provide their graduate students with research opportunities. Several faculty members have won prestigious awards, including the National Science Foundation's Faculty Early Career Development (CAREER) Award and the President's Council **WorldsAhead** Faculty Award.

PARTNERSHIPS

ECE holds multiple partnerships. A major partner is Florida, Power & Light (FPL). Many funded research projects come from the National Science Foundation (NSF). ECE also has industrial partnerships with companies such as ANSYS and Motorola, where many of ECE's alumni work. ECE also collaborates with the health industry, including Baptist Hospital, Nicklaus Children's Hospital, Wien Center for Alzheimer's and Oregon Health & Science University. ECE works closely with FIU's University Graduate School and Student Access and Success for the Bridge to the Doctorate program, helping minority students complete STEM doctoral degrees.

POINTS
OF PRIDE

#12 for computer engineering
bachelor's degrees awarded by school*

*ASEE 2017 Statistics (American Society for Engineering Education).

#14 for best master's degree program
in engineering online (master of science in computer
engineering: network security)*

*Best College reviews

Ranked in Best Graduate Electrical/Electronics/
Communications Engineering Program category*

*U.S. News & World Report

1st in the nation to offer an
Internet of Things bachelor's degree



GRADUATE DEGREES OFFERED

- M.S. Computer Engineering
- M.S. Electrical Engineering
- M.S. Computer Engineering: Network Security (Fully online)
- Ph.D. Electrical and Computer Engineering

COMBINED BACHELOR'S AND MASTER'S DEGREE (4+1) PROGRAM

The combined B.S. & M.S. Degree Program is an accelerated program designed for outstanding undergraduate students currently enrolled in the college who wish to pursue their M.S. degree while completing in the college their B.S. degree.

RESEARCH HIGHLIGHTS

- Antennas and wireless communications
- Internet of Things
- Security of cyber-physical systems
- Protecting the smart grid

GRADUATE RESEARCH OPPORTUNITIES

Research opportunities are available for graduate students in all disciplines offered by ECE, which include: communications, computer architecture and microprocessor design, data system software, digital signal processing, embedded system software, energy cybersecurity, integrated nano-technology, Internet of Things (IoT), networking and security, power and energy and RF & microwave systems.

FACILITIES

RFCOM Lab: Devoted to world-class research in antennas, RF systems, sensors and sensing, wireless power transfer, THz, photonics, propagation, scattering, wireless communications, signal processing and sensor fusion

Cyber-Physical Systems Security Lab (CSL): Security of Cyber-Physical Systems (CPS), Internet of Things (IoT), security of critical infrastructure networks and wireless and mobile devices security

Home to state-of-the-art research, award-winning faculty, outstanding students and world-class laboratories, ECE combines superior research infrastructure and renowned expertise to develop applied science that has a powerful impact on academic and scientific ventures.