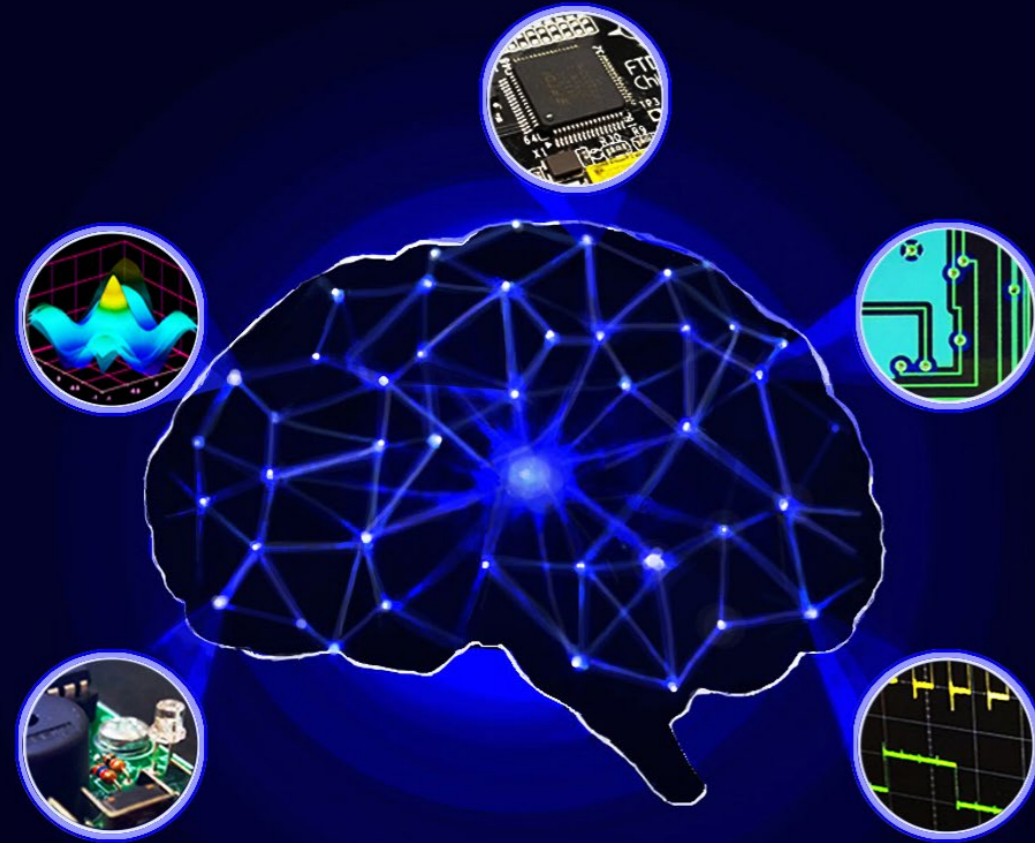


DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING



Department Chair: Distinguished Professor Petar M. Djurić
<https://www.stonybrook.edu/electrical/>

GATEWAY to ENGINEERING

Welcome to the Dr. Myung Oh Gateway to Engineering, where students are encouraged to follow the inspiration of its namesake by using their unique talents to invent the future in research in engineering, technology and science.

About Us

The Stony Brook ECE department has 28 full-time faculty members, 511 undergraduate students, 159 Master's degree students, and 79 Ph.D. students.

Our faculty and students conduct cutting edge research in a number of areas including wireless, mobile, and optical networks, cloud and mobile computing, optoelectronic devices and systems, semiconductor devices, nanoscale IC design, signal processing, computer vision, reconfigurable hardware, cyber-physical and embedded systems, sensing systems, and smart energy systems.

The work of the faculty and the students is regularly published in most prestigious international journals and conference proceedings.

Recent News:

Grand opening of the North Atlantic Industries Engineering Teaching Lab, an innovative studio lab facility for several of the department's initiatives including outreach activities, professional development, and undergraduate and graduate courses

Appointment of Assistant Professor Ji Liu, whose research focuses on distributed control and computation. Before joining us at Stony Brook, Prof. Liu earned a Ph.D. from Yale University and was a postdoctoral research associate at the University of Illinois and Arizona State University.

The ECE department has received new funding from the SUNY Empire Innovation Program to hire two senior faculty members in power systems and power electronics.

The College of Engineering and Applied Sciences dedicated the lobby of the Engineering Building to honor our alumnus Dr. Myung Oh '72 for his lifetime of service to Stony Brook University as "The Dr. Myung Oh Gateway to Engineering."

ABOUT STONY BROOK ECE

RECENT FACULTY & STAFF AWARDS

Prof. Emre Salman:
Technological Innovation Award, IEEE
Region 1

Prof. Mónica F. Bugallo:
SUNY Chancellor's Award for Excellence in
Teaching

Prof. Wendy Tang:
SUNY Chancellor's Award for Excellence in
Faculty Service

Anthony Olivo:
SUNY Chancellor's Award for Excellence in
Professional Service

Prof. Fan Ye:
Google Faculty Research Award

Prof. David Westerfeld:
Athanasios Papoulis Outstanding Educator
Award, IEEE region 1

EDUCATIONAL PROGRAMS

BE in Electrical Engineering

BS in Electrical Engineering Online

BE in Computer Engineering

Undergraduate
Programs

Graduate
Programs

Master's Thesis Option

Master's Non - Thesis Option

Doctoral Program

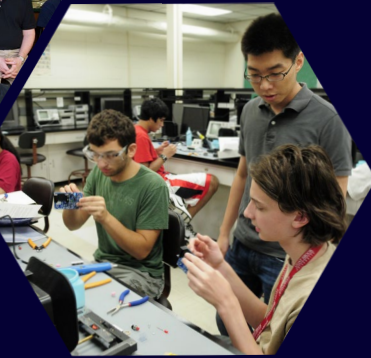
Innovative graduate certificate programs: As part of their graduate studies, students can additionally earn certificates in three areas:

- Engineering Machine Learning Systems
- Engineering the Internet-of-Things
- Networking and Wireless Communications

OUTREACH PROGRAMS

The complex technological challenges facing our nation require solutions that leverage broad input from a multicultural engineering workforce.

At ECE, our rich outreach programs focus on strategies to enhance diversity, engaging students at all levels, teachers/counselors, and faculty in the passion, challenge and opportunity of engineering—a profession that promotes social and economic mobility. The initiatives are committed to meet the requirements of the Next Generation Science Standards (NGSS).



Student activities –

The Engineering Teaching Laboratories expose middle and high school students to daylong hands-on activities in different fields of engineering during the academic year.

The Engineering Enterprise is a one-week long summer camp for rising 8th and 9th grade students that combines different engineering activities with a focus on design and data analysis.

Counselors/teachers/administrators activities – Professional learning activities offer academic-year-long modules for in-service science and mathematics teachers on hands-on (engineering) learning as well as training/informative workshops on STEM with particular emphasis on engineering for school counselors during the calendar year. Annual meetings with superintendents and school administrators inform them about NGSS and strengthen our partnership with the school districts to facilitate NGSS implementation.

The newly designed WISE Honors program, led by our faculty member Mónica Bugallo, offers educational and professional STEM opportunities for women at all levels. The program focuses through different educational initiatives on the recruitment of more students to STEM education, retention of those who initially choose STEM study, and partnering with faculty, students, campus offices and industry to promote STEM research. WISE is the Flagship Program of the College of Engineering and Applied Sciences (CEAS) to promote women in science and engineering.

ACTIVE RESEARCH SPONSORED PROJECTS

