RECRUIT BETTER.
At the School of Engineering and Applied Science (SEAS), we strive to provide students with valuable resources and access to academic, corporate, non-profit, government, and professional development opportunities. By connecting students, faculty, staff, alumni, and employers, we create a talent pipeline that highlights GW graduates as leading contributors to the global community.

HIRE BETTER.
Students in electrical engineering not only understand the principles of communications and networks, electrical power, and energy—they know how to apply them toward solutions in nanotechnology, medical sensors, electronic battery life, and more. In addition to selecting a specific area of focus, students may also choose to end their program with a research-focused thesis or additional coursework to build their expertise. Upon graduation, our students are prepared to enter the industry with solidified research skills and the sophisticated knowledge needed to resolve today’s growing electrical needs.

ENGINEER BETTER.
At SEAS, our students pride themselves on developing cutting-edge research and innovation both in and out of the classroom. Through its institutes, centers, and special programs, SEAS extends academic investigation throughout the greater GW campus, professional industry, and society as a whole. By fostering an environment in which students apply technology and research findings to all areas of instruction, students are well prepared for rewarding and productive careers as engineers, applied scientists, and computer scientists.

2017 STUDENT ENROLLMENT
Graduate: 263
Undergraduate: 56

AREAS OF FOCUS

Graduate
- Applied Electromagnetics
- Communications and Networks
- Electrical Power and Energy
- Electronics, Photonics, and MEMS
- Signal and Image Processing, Systems and Controls

Undergraduate
- Energy
- Medical Preparation Option

RESEARCH FACILITIES, PROJECTS, & PARTNERSHIPS

At GW, electrical engineering students actively collaborate with peers and faculty on research, which is conducted across several facilities on and off campus.

RESEARCH AREAS

- Applied Electromagnetics
- Communications and Networks
- Computer Architecture and High-Performance Computing
- Electrical Power and Energy
- MEMS, Electronics, Photonics
- Signal and Image Processing, Systems, and Control
LABORATORIES
- High-Performance Computing Architectures and Technologies Laboratory
- High-Performance Computing Laboratory
- Lab for Intelligent Networking and Computing
- Magnetic Material Testing Laboratory
- Magnetic Refrigeration Research Laboratory
- Magneto-Optics Laboratory
- Microwave Laboratory
- Orthogonal Physics Enabled Nanophotonics Lab
- VLSI and MEMS Systems Design and Testing

CENTERS & INSTITUTES
- GW Intel Parallel Computing Center
- Institute for Massively Parallel Applications and Computing Technologies (IMPACT)
- Institute for Magnetics Research
- Institute for MEMS and VLSI Technology

Department Annual Research Expenditure: $2.5 million (2017)

FACULTY
SEAS students benefit from instruction, interaction, and collaboration with faculty who are on the cutting-edge of research and are leaders in their fields. More than two-thirds of our recently hired SEAS faculty members graduated from top 20 engineering and computer science programs in the U.S., or top programs across the world.

“The ECE faculty are working on several interesting research topics. In addition, they are teaching several courses that are important to the industry, which helps graduates find adequate positions in the industry and at other employment agencies. The faculty and the students enjoy friendly, collaborative, and productive relationships”

- Dr. Mona Zaghloul, Professor, Electrical and Computer Engineering

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