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 pursuing graduate studies in telecommunications engineering are provided with a foundation in the fundamentals of telecommunication components, including: transmission systems, computer networking, network architectures and protocols, security protocols, and wireless networking. Coursework in microcomputer systems architecture, network performance analysis, and stochastic processes produce graduates prepared to take on the challenges presented in the growing need for innovative solutions in telecommunications infrastructure and security.

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: 4

SAMPLE COURSEWORK
- Advanced Network Architectures
- Grid and Cloud Computing
- Introduction to Computer Networks
- Microcomputer Systems Architecture
- Network Performance Analysis
- Stochastic Processes in Engineering
- Telecommunications Security
- Telecommunications Security Protocols
- Wireless Networks
- Optical Communications Networks

RESEARCH FACILITIES, PROJECTS, & PARTNERSHIPS
At GW, telecommunications 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

Computer & Electrical Engineering 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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