RECRUIT BETTER. HIRE BETTER. ENGINEER BETTER.

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.

TELECOMMUNICATIONS ENGINEERING (M.S.)

Number of Enrolled Students: 15

SAMPLE COURSEWORK

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

COMMON INDUSTRIES STUDENTS SEEK JOBS IN:

- Audio and Video Equipment Manufacturing
- Communications Equipment Manufacturing
- Navigational, Measuring, Electromedical and Control Instruments Manufacturing
- Scientific Research and Development Services
- Securities and Commodity Contracts Intermediation and Brokerage
- Semiconductor and other Electronic Component Manufacturing
- Specialized Design Services
- Software Publishers
- Wired Telecommunication Carriers
The George Washington University does not unlawfully discriminate in its admissions programs against any person based on that person’s race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, or gender identity or expression.

Average Salary for Electronics Engineers, Except Computer (Department of Labor, 2013)

Regional Average: $112,550
National Average: $97,870

RESEARCH FACILITIES, PROJECTS, AND PARTNERSHIPS

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

LABORATORIES

- Magnetic Material Testing Laboratory
- Magnetic Refrigeration Research Laboratory
- Magneto-Optics Laboratory
- Optofluidics and Microfluidics Laboratory
- VLSI and MEMS System Design Testing

CENTERS & INSTITUTES

- Institute for Magnetics Research
- Institute for Massively Parallel Applications and Computing Technologies
- Institute for MEMS and VLSI Technology

Department Annual Research Expenditure: $3.1 million (2014)

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 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

CONTACT Information

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Washington, D.C. 20052
seascareers@gwu.edu 202-994-4205
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