

TELECOMMUNICATIONS ENGINEERING

M.S.

School of Engineering
& Applied Science
THE GEORGE WASHINGTON UNIVERSITY

Telecommunications Engineering, also called Telecom Engineering, is an engineering discipline that combines electrical engineering with computer science to enhance telecommunication systems. Work ranges from basic circuit design to strategic mass developments and in many instances also overlaps with broadcast engineering. Telecommunication Engineers are responsible for designing and overseeing the installation of telecommunication equipment and facilities, such as complex electronic switching systems, copper wire telephone facilities, and fiber optics.

KEY SKILLS & SAMPLE JOBS

- Analyze the organization's communication needs and recommend equipment
- Evaluate technical issues related to computer, server, network, voice and implement solutions
- Oversee new and existing equipment, hardware and software upgrades
- Train and supervise other engineers on the installation and maintenance of equipment

Sample Job Titles: Design Engineer, Network Engineer, Telecom Engineer, Telecom Specialist

ELECTRICAL & COMPUTER ENGINEERING DEPARTMENT

20 full-time faculty

\$5 million annual research expenditures

7 Fellows of the Institute of Electrical and Electronics Engineers (IEEE)

DEPARTMENT ENROLLMENT

89 undergraduate

269 graduate

RESEARCH AREAS

Applied Electromagnetics

Communications and Networks

Computer Architecture and High-Performance Computing

Electrical Power and Energy

MEMS, Electronics, and Photonics

Signal and Image Processing, Systems and Controls

2018 CAREER OUTCOMES

92%

92% of SEAS students were satisfied with the career programs and services

67%

67% of SEAS graduates were employed or enrolled in graduate school within 6 months

\$

44% of SEAS graduate students earn a salary of \$100,000 or more

EMPLOYERS

WHO HAVE HIRED GW STUDENTS

Boeing

Booz Allen Hamilton

Lockheed Martin

Reverb Networks

U.S. Patent & Trademark Office

W. SCOTT AMEY CAREER SERVICES CENTER

careers.seas.gwu.edu

seascareers@gwu.edu