

# ELECTRICAL ENGINEERING

B.S., M.S., PH.D.

School of Engineering  
& Applied Science

THE GEORGE WASHINGTON UNIVERSITY

Electrical Engineers develop, test, install, and supervise the manufacturing of electrical equipment such as electric motors, radar and navigation systems, communication systems, transportation equipment and vehicles, and power generation equipment. They may also design and develop broadcast and communication systems, from portable music players to global positioning systems (GPS). Electronic engineering typically deals with the study of electronic systems and problems associated with these systems, such as electric power transmission and electrical machines.

## KEY SKILLS & SAMPLE JOBS

- Analyze, design, and troubleshoot equipment
- Communicate effectively with clients that may lack technical backgrounds
- Collaborate with engineers and technicians during manufacturing process and implementation
- Write technical publications such as manuals, proposals, and design methods

**Sample Job Titles:** Electrical Design Engineer, Power Systems Engineer, Project Engineer, Test Engineer

## 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

89%

89% of electrical engineering seniors were employed or enrolled in graduate school within 6 months

\$

\$70,000 median salary for undergraduates

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

## EMPLOYERS

WHO HAVE HIRED GW STUDENTS

AT&T

Ericsson

General Dynamics  
Information Technology

Leidos

NASA

Pepco

Tesla

Texas Instruments

W. SCOTT AMEY CAREER SERVICES CENTER

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