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

**2018 Career Outcomes**
- 92% of SEAS students were satisfied with the career programs and services
- 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

**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

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