GRADUATE PROGRAMS
PROGRAMS OF STUDY

BIOMEDICAL ENGINEERING (M.S., Ph.D.)
Students will apply engineering principles to problems in medicine and biology, understand and model multiple attributes of living systems, and synthesize biomedical systems and devices. Students choose between two areas of focus: medical imaging and medical instrumentation.

CIVIL AND ENVIRONMENTAL ENGINEERING (M.S., Ph.D.)
Students prepare for a career in one of the fastest-growing fields around the world by choosing one of the following areas of focus: engineering mechanics, environmental engineering, geotechnical engineering, structural engineering, transportation safety engineering, or water resources engineering.

COMPUTER ENGINEERING (M.S., Ph.D.)
Students gather knowledge and skills in computer systems architecture and networking, while learning sophisticated integrated circuit design techniques using industry-standard computer-aided design tools. Areas of focus include computer architecture and high performance computing; and microelectronics and VLSI systems.

COMPUTER SCIENCE (M.S., Ph.D.)
Cutting-edge research and world-class faculty create truly unique collaborative opportunities for students in GW’s computer science programs. Students choose from a variety of areas of focus, including algorithms and theory; computer architecture; networks, parallels, and distributed computing; computer security and information assurance; database and information retrieval systems; machine intelligence and cognition; multimedia, animation, graphics, and user interface; and software engineering and systems.

CYBERSECURITY IN COMPUTER SCIENCE (M.S.)
Students receive a strong technical education in computer security, network security, information security, cryptography and cryptographic protocols, and management of security, as well as a firm grounding in requisite core knowledge of computer science.

DATA ANALYTICS (M.S.)
Jointly offered through the Computer Science and Engineering Management and System Engineering departments, this program offers a comprehensive and rigorous curriculum in big data acquisition, analysis, and management from an engineering perspective. Students can expect to learn real-world data skills in cohort groups of 20–30 and complete the program through a capstone project.

ELECTRICAL ENGINEERING (M.S., Ph.D.)
Our location in Washington, D.C., gives students access to the latest in technology advances through government agencies, private industry, and defense centers. Students choose among five areas of focus: communications and networks; electrical power and energy; electromagnetics, radiation systems, and microwave engineering; signal and image processing, systems, and controls; and electronics, photonics, and MEMS.

ENGINEERING MANAGEMENT (M.S., Ph.D.)
Students receive a broad, interactive education that helps them become technical managers who can utilize innovative management techniques to achieve a competitive edge in efficient operations for technological and scientific organizations. Areas of focus include crisis, emergency, and risk management; economics, finance, and cost engineering; engineering and technology management; environmental and energy management; and knowledge and information management.

About the SCHOOL OF ENGINEERING AND APPLIED SCIENCE
http://go.gwu.edu/seasgradprograms
The School of Engineering and Applied Science is one of the leading research institutions in the United States, boasting more than 90 tenured and tenure-track faculty members, and housing 11 research centers and institutes. We also house 55 research facilities and laboratories in 30 research fields. The school offers a breadth of expertise in 12 major engineering and computer science disciplines with an array of focus areas in each.
MECHANICAL AND AEROSPACE ENGINEERING (M.S., Ph.D.)
This program boasts areas of excellence in nanotechnology, biomimetics, biomedical engineering, and energy. Students pursue one of the following areas of focus: aerospace engineering; design of mechanical engineering systems; fluid mechanics, thermal sciences and energy; industrial engineering (under the M.S. only); robotics, mechatronics and controls; solid mechanics and materials science; or structures and dynamics.

REGULATORY BIOMEDICAL ENGINEERING (M.Eng.)
In partnership with GW’s School of Medicine and Health Sciences, this program strives to meet the growing need for biomedical engineers who understand the fundamentals of regulatory science and entrepreneurship in order to advance the development and production of medical devices, imaging diagnostics, and therapy.

SYSTEMS ENGINEERING (M.S., Ph.D.)
The program provides broad knowledge of the “systems approach” for designing and managing large-scale engineering systems. Students can choose from three areas of focus: operations research and management science; systems engineering and integration; or enterprise information assurance.

TELECOMMUNICATIONS ENGINEERING (M.S.)
Students learn fundamental principles of telecommunications engineering, computer science, and information management, and the design of local and wide-area networks. Coursework covers subjects such as computer and information security; communication network protocols; telecommunications software engineering; and information transmission, storage, manipulation, and retrieval.

APPLYING for ADMISSION
Visit http://go.gwu.edu/applytoseas for a general overview of the admissions process, as well as program-specific admissions requirements and access to our online application.

DEADLINES:
Fall—January 15
Spring—September 1
Summer—March 1

LIFE after GRADUATION
The W. Scott Amey Career Services Center provides career development services, including career guidance to graduate students and recent alumni in résumé building, writing cover letters, and preparing a LinkedIn profile. Additional services include interviewing skills, job market information, and job success practices.

In addition to providing comprehensive career-related resources, the center facilitates a professional development curriculum aimed at preparing SEAS graduate students to explore and pursue a range of employment options. Visit http://go.gwu.edu/seasgradcareer for more information.

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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.