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.
As one of the fastest growing job sectors in the U.S. and abroad, students in civil and environmental engineering learn the latest methods and technologies to develop solutions to transportation systems, bridge construction, power plants, and more. Along the way, they pick up crucial skills in teamwork, project management, and quantitative analysis through collaborative research and coursework.

As one of the oldest disciplines offered at GW, civil engineering courses are updated frequently with the latest research and developments folded into the curriculum. Aspiring environmental engineers also reap the benefits of courses focused on exploring solutions to protecting the world around us.

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.

ENROLLED GRADUATE STUDENTS: 54

ENROLLED UNDERGRADUATE STUDENTS: 86

AREAS OF FOCUS

Graduate
- Environmental Engineering
- Geo-environmental Engineering
- Mechanics and Materials Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering

Undergraduate
- Structural
- Environmental
- Transportation & Sustainability
- Medical Preparation

RESEARCH FACILITIES, PROJECTS & PARTNERSHIPS

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

RESEARCH HIGHLIGHTS

Making Life Easier and Safer: With the help of our esteemed faculty, our students at the Center for Intelligent Systems Research (CISR) are developing intelligent transportation systems to ease public transportation congestion and improve public safety by applying traffic theory, driver/pedestrian behavior analysis, and evacuation modeling on single lane traffic patterns.
Acting Locally and Making National Impact: Environmental engineering students are working with faculty at one of the world’s largest wastewater treatment plants to improve the water quality of the Potomac River and Chesapeake Bay watershed.

LABORATORIES

- Center for Intelligence Systems Research Labs
- Cooperative Vehicle Systems Lab
- Driving Simulation Lab
- Earthquake Engineering and Structures Lab
- Environmental Engineering Lab
- Fluid Mechanics and Hydraulics Lab
- High Bay Laboratory
- National Crash Analysis Center
- Soil Mechanics Lab
- Structural Testing and Material Science Lab
- Traffic and Networks Research Lab
- Truck Driving Simulation Lab
- Virtual Reality Lab

Department Annual Research Expenditure: $551,000 (2017)

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.

“A key characteristic of CEE students at GW is their broad interest in social, cultural, and environmental issues that affect engineering solutions.”

- Dr. Majid Manzari, Professor, Civil and Environmental Engineering

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