

SPECIALTY AREAS

UW CEE offers master's degree and Ph.D. programs in six specialty areas:



Construction, Energy and Sustainable Infrastructure

Researchers address pressing needs of society related to infrastructure challenges including sustainable roads, energy efficient buildings and engineering in developing communities.



Environmental Engineering

Researchers work to protect and preserve the environment through water quality research, air pollution control, wastewater management and more.



Geotechnical Engineering

Researchers study the behavior of earth materials, focusing on geotechnical earthquake engineering, geologic hazards, soil mechanics, foundation engineering and reinforced soil systems.



GLOBAL RESEARCH OPPORTUNITIES

Students have the opportunity to travel to other countries to research pressing issues throughout the world. The following programs are open to graduate students.

Travel to Nordic Countries: Graduate students participate in research in Scandinavia through the Valle Scholarship & Scandinavian Exchange Program, which promotes the exchange of graduate students between UW and schools in Nordic countries.

Travel to Jordan: To learn about water engineering in an arid land, the Engineering Jordan program takes graduates students to Jordan where they visit drinking water treatment plants and wastewater treatment plants located throughout Northern Jordan.

Travel to India: A new India Study Abroad program provides students with hands-on experience, empowering them to solve global problems facing humanity such as food insecurity and access to clean water and energy.

JOB GROWTH

The demand for civil and environmental engineers is expected to grow quickly in coming years. Below are a few statistics that forecast considerable job growth:

- 20% increase in demand for civil engineers by 2022*
- 650 civil engineer positions expected to be added per year in Washington state, more than any other engineering discipline*
- 12% job growth for environmental engineers by 2024, more than the average for all occupations*

* Bureau of Labor Statistics

FUNDING

UW is committed to helping students from all economic backgrounds access world-class education. A number of resources are available to help graduate students fund college, from financial aid to research assistantships to fellowships.

Master's Program Funding: Funding for the master's degree program depends on whether students pursue the coursework only or research-intensive track. Coursework only students are self-funded while the majority of research-intensive track students are fully funded with research assistantships or fellowships. Online master's programs are self-funded.

Ph.D. Program Funding: Ph.D. students are fully funded with research or teaching assistantships, departmental support and fellowships from a variety of organizations, such as the National Science Foundation.

PREREQUISITES

In addition to minimum admission requirements (a bachelor's degree, 3.0 minimum GPA and English proficiency), each master's degree specialty area has specific requirements. Depending on the specialty area, a bachelor's degree in civil and environmental engineering is not necessarily required. The GRE is required for all applicants. For specifics, please visit ce.washington.edu/future/grad/prerequisites.



Hydrology and Hydrodynamics

Hydrology research focuses on the quality and distribution of surface water, groundwater and water management in urban environments. Hydrodynamics explores the properties of fluids in motion.



Structural Engineering and Mechanics

Researchers evaluate the structural integrity of built structures such as buildings and bridges. They also design more resilient structures to withstand hazards such as earthquakes.



Transportation Engineering

Researchers solve transportation problems affecting all modes of travel, with a focus on intelligent transportation systems, infrastructure construction and freight and logistics.

