



CIVIL ENGINEERING

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CIVIL ENGINEERS USE SCIENCE AND MATH TO PLAN, DESIGN, BUILD, OPERATE AND MAINTAIN INFRASTRUCTURE THAT HELPS PEOPLE AND THE PLANET.

WHAT OUR GRADUATES SAY

"It is a very fulfilling path. I appreciate the knowledge I have gained and that I get to use it to make a significant impact on quality of life."

"Civil engineering attracts people who are very passionate about helping others."

"The diverse career prospects I have with this major are applicable to many sectors."

"Majoring in civil engineering makes me happy because the content can be used to improve people's lives around the world."

WHAT DO CIVIL ENGINEERS DO?

Civil engineers have direct and lasting impacts on how we live on this planet and interact with the environment. Civil engineers do this by using a diverse set of engineering skills to work on infrastructure and environmental challenges fundamental to our existence, including things like safe shelter, clean water, clean air, mobility, sustainability, equity, and resilience.

WHAT MAKES CIVIL ENGINEERING SPECIAL?

- **Big issues:** Civil engineers work on society's biggest issues: climate change, clean water, sanitation, smart cities, and sustainable/equitable/resilient infrastructure. No matter where you are in civil engineering, you will be working on issues of global (and local) importance.
- **Big impact:** Civil engineers have a big impact on everyday life. Society trusts civil engineers with its safety and health, asking them to ensure we have clean drinking water, earthquake-resistant buildings, wastewater collection and treatment, sustainable use of the planet's resources, and much more.
- **Big (and little) things:** Civil engineers design and construct at a massive scale, from floating bridges to light rail systems to 100-story buildings to the international space station. But, they also go small from biodigesters to water treatment membranes to micropiles. Pick your size.
- **A place for everyone:** There are opportunities in civil engineering for all types of people. Take a variety of classes to see where your passion lies. Use your math and physics skills to design complex buildings and structures, be an environmentalist by using hydraulic design to restore a river habitat, or use your people and organizational skills to build a bridge across Lake Washington. With a bachelor's degree in civil engineering, you are qualified to work on something you love, no matter who you are.

WHERE DO CEE ALUMNI WORK?

Air and space

Aircraft/spacecraft structural analysis | Boeing, SpaceX, Department of Defense

Computing, data and digital technologies

Mathematical modeling, transportation data and technology, smart cities, big data, remote sensing | Amazon, Google, Uber, Zillow, Thornton Tomasetti

Environment, sustainability and energy

Climate change/adaptation, renewable energy, water treatment, sustainable infrastructure | Parametrix, Seattle Public Utilities, TRC Companies, UNICEF

Health and medicine

Drinking water treatment, air pollution control, health facilities construction, active transportation | Puget Sound Clean Air Agency, Aspect Consulting, Clark Construction

Infrastructure, transportation and society

Project management, construction, structural design, earthquake engineering, transportation design, urban planning | Jacobs, WSP, HDR, GeoEngineers, KPFF, Magnusson Klemencic, Kiewit, Stacy and Witbeck, Pertee, Sound Transit, Walsh Group, WSDOT

Robotics and manufacturing

Construction materials, tunneling, 3D printing, demolition | Lane Construction, Traylor Brothers, Kiewit, Clark Construction



QUICK FACTS

More than 80% of CEE students have had an internship by the time they graduate.

Each year, the CEE department awards more than \$400,000 in scholarships to its own students.

The CEE department hosts a department-dedicated annual Career Fair that connects students with over 80 employers.

HOW CAN I LEARN MORE?

- **Join a civil engineering student organization:** Choose from the Concrete Canoe Team (yes, we build canoes out of concrete!), Steel Bridge Team, Engineers Without Borders, and more.
- **Study abroad:** CIVE students travel to Rome, Jordan and India!
- **Contact our advising staff:** We can help you find your fit in civil engineering. Email ceadvice@uw.edu to set up an advising appointment.

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University of Washington Civil and Environmental Engineering