

WHY CHOOSE CIVIL OR ENVIRONMENTAL ENGINEERING?



Civil engineering and environmental engineering each focus on planning, designing, building, and sustaining the human habitat—from the infrastructure of buildings, roads and bridges to industrial and biological waste treatment to water conservation to biomass-based energy production. Their contributions are vital to the everyday functioning of our global society and to protecting public health and the environment.

We work toward a sustainable future for our society.

Duke's Department of Civil and Environmental Engineering (CEE) conducts diverse research and educational activities to improve the fundamental health and safety of society. Our signature areas of research include environmental chemistry and toxicology, hydrology and environmental fluid dynamics, environmental process engineering, and materials, structures and geosystems. We designed a flexible program so you can pursue your goals, whether through a double major or participating in hands-on projects outside the classroom with groups like the American Society of Civil Engineers, Duke Smart Home or Duke Engineers for International Development.

Our flexible curriculum lets you pursue your passion.

Students can pursue a major in environmental engineering (EnvE) or a major in civil engineering (CE). CE majors focus on one of two study tracks: water resources and environmental engineering or structural engineering and mechanics. CE and EnvE majors can also double-major in biomedical engineering, minor in energy engineering, and pursue certificates in areas such as Energy & the Environment or Architectural Engineering. All CEE students develop skills in engineering analysis, design, technical communication, and teamwork while pursuing knowledge that may include engineered and natural materials, structures, transport phenomena, water resources, hydrology, and chemical and biological processes for waste treatment and water purification.

Learn more: cee.duke.edu

You can do research as an undergraduate.

More than half of Pratt students participate in hands-on, laboratory research for formal class credit. Many apply to become Pratt Research Fellows or NAE Grand Challenge Scholars, or are involved in volunteer, summer, or paid research opportunities. CEE seniors also complete a team-based capstone design project that provides a rigorous, real-world immersive experience in engineering.

Recent projects by CEE students:

- Energy harvesting from swine farm operations
- Design and analysis of green roof and urban architecture in downtown Durham
- Optimal environmental sensor placement in North Carolina's Neuse River Basin
- From slums to sustainable communities: the megacity problem
- Hazard analysis of 3-D ground motion

Our students go places.

Duke civil and environmental engineering graduates go on to tackle some of society's most complex and important problems, working to balance the needs of growing human populations and changing and uncertain environmental forces, by addressing the challenges of sustainability, pollution, transportation, drinking water and energy needs, urban redevelopment, and community planning.

Some places our recent graduates have gone:

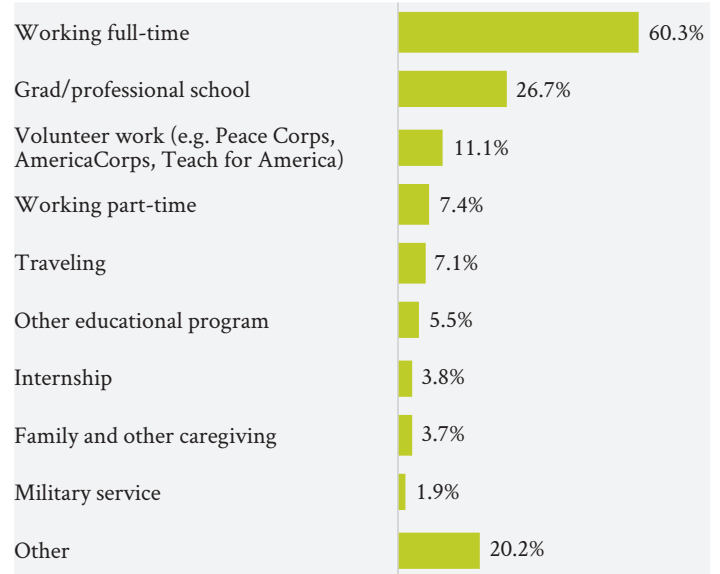
Graduate & Professional Schools:

- University of Texas at Austin
- Stanford University
- University of Illinois, Urbana-Champaign
- University of Southern California
- University of California, Berkeley

Industry:

- Skanska
- Gilbane
- Booz Allen Hamilton
- Dewberry
- Kimley-Horn
- Clark Construction
- Stewart Engineering

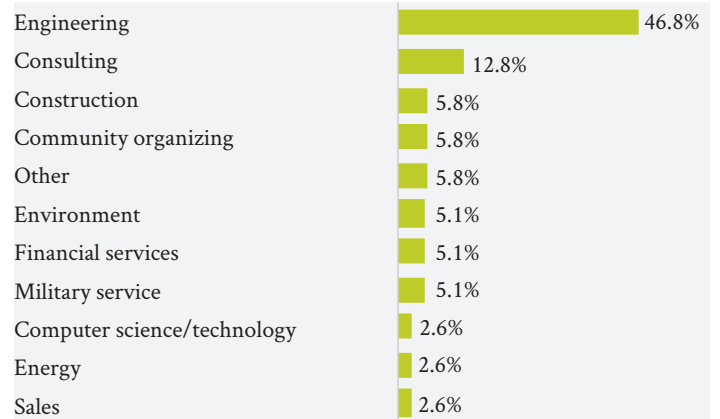
After-graduation plans for 2012-2014 CEE seniors:



*Some students chose more than one answer.

91% of Duke CEE students participate in internships or related work experience before graduation.

Area of employment for CEE grads entering the workforce:



Plans for 2012-2014 CEE grads directly entering graduate/professional school:



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