



EXPLORE

# Civil Engineering



**PennState**  
College of Engineering



*“Our undergraduate program provides a broad background in civil engineering while allowing flexibility for students to strengthen their interests through our many focus areas and professional societies. Our graduates are very well prepared to hit the ground running in both industry and advanced academic pursuits.”*

— Thomas J. Skibinski, PE, Associate Teaching Professor, Director of Undergraduate Studies



Our undergraduate curriculum provides a broad-based education in construction engineering and management, environmental engineering, geotechnical engineering, materials engineering, structural engineering and mechanics, transportation engineering, and water resources engineering. We accomplish this through a base of physics, mathematics, project management, computational and artificial intelligence tools, and disciplinary civil engineering design courses along with hands-on project-based learning and real-world experiences.



Our many professional society student chapters (American Society of Civil Engineers, Chi Epsilon Honor Society, American Concrete Institute, Engineers in Action, Engineers Without Borders, Institute of Transportation Engineers, and National Association of Home Builders) provide students with excellent opportunities for leadership, teamwork, communication, and exploration of civil engineering outside the classroom. Students have access to alumni mentors, career fairs, site visits, conferences, competitions, networking, and social events.

**13** Undergraduate Programs, *U.S. News & World Report*

Undergraduate third- and fourth-year students (Fall 2024)

**411**

**164** Degrees Awarded in 2023-24

Amount awarded in scholarships (2023-24)

**\$319K**

Engineering Co-Ops and Internships

Integrate classroom learning with real-world experience



### You might like this program if...

- You want to design resilient infrastructure that can adapt to a changing climate.
- You want to develop engineering materials that are lighter, more durable, and have a lower carbon footprint.
- You want to use AI and machine learning to solve sustainability challenges.
- You are interested in designing safe, smart, and equitable mobility systems.
- You want to create sustainable solutions for purifying our water, soil, and air.
- You want to serve your community and make a difference in the world around you.

**CE**

Hear from students and alumni by watching the Exposure to Major video series: [bit.ly/PennStateEngineering](https://bit.ly/PennStateEngineering)



# What is a civil engineer?

Civil engineers (CEs) engineer tomorrow and reimagine infrastructure, contributing to almost every aspect of the design and construction of the built environment, while protecting our natural resources. CEs tackle some of the biggest problems facing society today and lead the industry in research discoveries and design innovations. As we transition to sustainable development around the world, the work of CEs is expanding from the design and construction of traditional highways, buildings, and water treatment systems to innovations in efficient mobility systems, advanced construction materials, sustainable waste management, and the use of artificial intelligence (AI) for solving complex engineering challenges.

Civil engineers have diverse opportunities to work in technical, managerial, or entrepreneurial roles, ranging from local to global for both public and private organizations. For example, CEs enjoy careers as project engineers, project/facility managers, technical experts, and directors/owners of consulting firms, construction firms, and industries, and they can also serve the public through non-governmental organizations and public agencies. If you want to design the future through a blend of innovation, sustainability, and technology, then civil engineering is for you!

*"The CE program has countless benefits—an excellent education, qualified faculty with real-world experience, countless career resources, and involved student organizations. The rigorous Penn State education prepared me to pass the FE [Fundamentals of Engineering] exam with ease and enter the workforce with the necessary skills to become a professional engineer. I've made many lifelong connections and encourage anyone considering civil engineering to attend Penn State. We Are!"*



— **Mason C. Edwards**, Class of 2024

**cee.psu.edu**

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