COLLEGE OF ENGINEERING

- Educating future engineers for 80 years
- Home to nation’s first electric-drive vehicle engineering program and alternative energy technology master’s degree program
- One of 23 U.S. PACE institutions
- A founding Systems Engineering Research Center (SERC) member
- 62 patent applications and five startup companies in the past five years
- One of only 15 North American universities chosen to compete in EcoCAR 2

RESUME BOOSTER

Our 16-credit EDGE Engineering Entrepreneur Certificate Program is a great addition to a civil and environmental engineering degree. The EDGE program trains engineering students in the entrepreneurial skills required to commercialize new ideas, technologies and products. Students learn to solve problems and bring inventions to market through courses in entrepreneurial marketing, finance, law and management, as well as engineering. Additionally, engineering students have direct access to a wide range of business incubators, partner services, mentors and advocates both on and off campus.

- engineering.wayne.edu/edge

GETTING STARTED

Take a tour
- admissions.wayne.edu/visitus
- engineering.wayne.edu/visit
- virtualtour.wayne.edu

Talk to an academic advisor
- 313-577-9850
- engineering.wayne.edu/advising
- engadmissions@wayne.edu

Learn more online
- engineering.wayne.edu/cee
WHAT IS CIVIL AND ENVIRONMENTAL ENGINEERING?

Everywhere you look, you’ll see the work of civil and environmental engineers. They are responsible for the design, construction and maintenance of our infrastructure, from the roads we travel to the drinking water we get from our taps, from tunnels and airports to stadiums and skyscrapers. With employment growth projected at nearly 20 percent before 2020, it’s no wonder both CNN Money and U.S. News & World Report rank the civil and environmental engineering profession among the country’s best career options.

DEGREE PROGRAMS

- Bachelor of science in civil engineering
- Master of science in civil engineering
- Certificate in sustainable engineering
- Doctor of philosophy in civil engineering

Concentrations: Construction management, environmental engineering, geotechnical engineering, structural engineering, transportation engineering

WHY THE WAYNE STATE COLLEGE OF ENGINEERING?

- Internships: Start working in the field before you even graduate with a large number of internship opportunities.
- Practical experience: Break classroom boundaries by building a concrete canoe, steel bridge, hybrid vehicle and more.
- Scholarships: The college awards up to 100 engineering scholarships annually. The university offers many more.
- Study abroad: Graduate with the global perspective employers love.
- Undergraduate research: Join expert faculty in research from your very first year.

RESEARCH

Wayne State is known for supporting undergraduate research as early as the freshman year, and the College of Engineering is no exception. In fact, the college recently kicked off its Undergraduate Research Award Matching Fund Program, providing students with support and faculty mentorship on a wide range of research projects.

The Department of Civil and Environmental Engineering has an active research program with diverse projects funded by federal, state and local governments, as well as private corporations. Students have opportunities to join Wayne State’s nationally competitive teams in the ASCE Concrete Canoe and ASCE/AISC Steel Bridge design contests, or give back to the community through local adopt-a-beach initiatives, high school tutoring and worldwide disaster relief programs.

FACULTY EXPERTISE

Our civil and environmental engineering faculty members are leading urban renewal in Detroit and beyond. Some are helping ensure a safe, sustainable water supply; others are testing the structural integrity of our state’s roadways. Professors Timothy Gates, Shawn McElmurry, Peter Savolainen and Tapan Datta, for instance, are working to assist MDOT with identifying a broad range of roadside functions and values to support integrated decision-making and policy-level considerations for right-of-way use.

ON THE JOB

Wayne State engineering students enjoy unparalleled career opportunities in Detroit and around the world. We support our students and alumni through our Career Services Office, online job listings, industry employer job banks and more. And, with so many employers based in the city and surrounding areas, our students have direct access to countless internship opportunities.

Civil engineering alumnus JAMES ANDERSON is president of Urban Science, a company he established in 1977 that now employs more than 750 employees in 18 offices worldwide. Urban Science specializes in applying scientific problem-solving methods to marketing problems, such as retail store site location analysis and network planning.

“My engineering professors know me by name. They are always available and they are helping with my undergraduate research project on clay interactions.”
— Devin Partrich, civil and environmental engineering