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 computer science 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
- 313-577-2406
- engineering.wayne.edu/advising
- engadmissions@wayne.edu

Learn more online
- engineering.wayne.edu/cs
What is computer science?

Artificial intelligence, wireless sensors, bioinformatics, video game design — these are just a few of the exciting fields computer science graduates can enter. The Department of Computer Science in Wayne State’s College of Engineering offers an innovative education focused on the fundamentals of computer science while emphasizing new technologies, so our graduates are ready to step right into careers. The department is closely aligned with other academic areas, including business and medicine, to give students interdisciplinary options. Our students get jobs immediately in this promising field – a field that CareerBuilder recently listed as having a 74 percent increase in job postings year-over-year.

Degree Programs

- Bachelor of science in computer science
  Concentrations: Software engineering, databases, web technology, computer gaming
- Post-bachelor certificate in computer science
- Master of science in computer science
- Doctor of philosophy in computer science

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 Computer Science runs eight teaching labs and a dozen research labs, including state-of-the-art spaces dedicated to graphics and imaging, intelligent systems, network and information systems, and mobile and Internet systems.

Faculty Expertise

Computer science faculty members are leaders in their field, bringing real-world research experience into the classroom. For example, Assistant Professor Nathan Fisher, who received the National Science Foundation’s (NSF) Faculty Early Career Development (CAREER) award, is developing algorithms and design tools that could result in even more powerful smartphones. And Assistant Professor Hongwei Zhang recently received an NSF grant to build an experimental wireless networking infrastructure for research, education and application exploration right here in Detroit.

Adriana Karaboutis is the global chief information officer for Dell, where she is responsible for managing a global IT enterprise focused on technology breakthroughs for Dell and its customers. In addition to a bachelor’s degree in computer science, Karaboutis also pursued graduate electronic computer control systems studies at Wayne State.

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.