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 an electric-drive vehicle 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](http://engineering.wayne.edu/edge)

GETTING STARTED

Take a tour
- [admissions.wayne.edu/visitus](http://admissions.wayne.edu/visitus)
- [engineering.wayne.edu/visit](http://engineering.wayne.edu/visit)
- [virtualtour.wayne.edu](http://virtualtour.wayne.edu)

Talk to an academic advisor
- 313-577-3716
- [engineering.wayne.edu/advising](http://engineering.wayne.edu/advising)
- [engadmissions@wayne.edu](mailto:engadmissions@wayne.edu)

Learn more online
- [engineering.wayne.edu/eve](http://engineering.wayne.edu/eve)
WHAT IS ELECTRIC-DRIVE VEHICLE ENGINEERING?
To reduce the nation’s dependence on imported fossil energy as well as the environmental impact of petroleum-based fuel systems, there is an urgent need to electrify a significant proportion of our vehicles. In 2010, Wayne State became the first university to launch a comprehensive electric-drive vehicle engineering curriculum. Thanks in part to a $5 million investment by the U.S. Department of Energy, and surrounded by automotive manufacturers and suppliers, Wayne State students gain the tools and knowledge to become the next generation of automotive masterminds.

DEGREE PROGRAMS
- Master of science in electric-drive vehicle engineering
- Graduate certificate in electric-drive vehicle 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
In addition to the $28 million Marvin I. Danto Engineering Development Center — which offers 83,000 square feet of laboratory space for research on alternative energy technology, nanotechnology and smart sensors and bioengineering — the College of Engineering has invested $1.2 million in new equipment for its electric-drive vehicle engineering and alternative energy technology programs.

Wayne State’s College of Engineering students also gain controls, mechanical, and electrical engineering experience through competitions such as EcoCAR 2, a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors. Wayne State is one of 15 universities in North America chosen to participate.

FACULTY EXPERTISE
The electric-drive vehicle engineering faculty stands ready to help students get the world moving in new ways. Students benefit from a teaching staff of full-time and adjunct professors for an ideal combination of industry experience, research acumen and hands-on guidance. Expertise ranges from advanced battery systems and vehicle integration to infrastructure and policy. Faculty members perform innovative research and publish extensively on renewable energy, battery materials, energy storage systems, energy efficiency, microgrid systems and control, system and vehicle integration.

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.

Our alumni are positioned to succeed across a variety of industries thanks to Wayne State’s nationally recognized faculty, well-equipped laboratories and innovative interdisciplinary research, as well as the university’s close ties to U.S. automakers and Detroit’s extensive health care systems.

“I came halfway around the world to pursue my degree in electric-drive vehicle engineering at Wayne State. Putting more electric vehicles on the road has the power to change the world.”
— Mengjia Cao, electric-drive vehicle engineering

“I’m arranging my master’s degree around EcoCAR 2. It is a rare and incredible opportunity to work on things that are beyond classroom lectures and tests. We are delivering real results that are test-driven on a road track at competition.”
— KEVIN SNYDER, chief engineer, WSU EcoCAR 2 team

“Engineering Wayne State: Where the world is moving today.”
— Wayne State College of Engineering