Resumeboster

Our 16-credit EDGE Engineering Entrepreneur Certificate Program is a great addition to an alternative energy technology 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/visit
engineering.wayne.edu/visit
virtualtour.wayne.edu

Talk to an academic advisor

313-577-3716
engineering.wayne.edu/advising
engadmissions@wayne.edu

Learn more online

engineering.wayne.edu/aet
What is alternative energy technology?

To combat global warming and lessen dependence on foreign oil and fossil fuels, the U.S. government has set a high priority on the development of new energy sources. Today, it dominates Michigan’s industrial and technology landscape, and engineers are being asked to design renewable energy systems to power everything from vehicles to home heating and cooling systems. In 2004, WSU established the country’s first master’s degree program in alternative energy technology and has remained ahead of the curve with comprehensive curricula that prepare students to lead the evolution to a hydrogen-based economy.

Degree Programs

- Bachelor of science with a concentration in alternative energy technology
- Master of science in alternative energy technology
- Graduate certificate in alternative energy technology

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. A state-of-the-art teaching lab gives students access to the latest technology, allowing them opportunities to apply classroom lessons to experiential learning.

Wayne State is in the thick of alternative energy research: The National Biofuels Energy Lab is located on campus and supported by the U.S. Department of Energy. In addition to major labs for fuel cells, nanotechnology and smart sensors, the college has invested $1.2 million in new equipment for alternative energy research.

Faculty Expertise

The faculty members in Wayne State’s alternative energy technology program are constantly tapped by federal and private organizations. They work with departments across the College of Engineering and beyond to discover new fuel sources and systems. A group of entrepreneurial faculty members were among the founders of NextCAT Inc., a startup advancing biofuel catalyst technology on campus. And the Center for Automotive Research received several million dollars in funding for its pioneering research in optimizing engines with alternative fuels.

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.

Alternative energy technology alumnus CHATMONGKON RATTANAPANUDDA is a hybrid engineer with Michigan-based IAV Automotive Engineering Inc. He works with battery management systems, ensuring they are integrated into the hardware of hybrid vehicles.