MECHANICAL ENGINEERING

RESUME BOOSTER

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

Talk to an academic advisor
313-577-5939
engineering.wayne.edu/advising
engadmissions@wayne.edu

Learn more online
engineering.wayne.edu/me
WHAT IS MECHANICAL ENGINEERING?

Harness the wind to power your automobile, make a lighter aircraft by exploiting the strength of nano fibers thinner than a hair, or determine the optimal route of a cargo ship through wind and current-laden seas. Mechanical engineering is a broad, versatile and creative discipline concerned with conversion of energy to useful work; the design and production of machines; and the interaction of solids, liquids and gases. A mechanical engineering degree provides a solid technical foundation for careers in fields as diverse as automotive, alternative energy, defense, medicine, patent law, manufacturing and aerospace.

DEGREE PROGRAMS

- Bachelor of science in mechanical engineering
- Master of science in mechanical engineering
- Doctor of philosophy in mechanical engineering

The bachelor’s program may be completed at Macomb Community College in addition to the main campus.

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.

Mechanical engineering students have hands-on opportunities to solve challenging problems in WSU’s research laboratories. Led by globally respected faculty, teams of undergraduate and graduate students work side by side, performing ground breaking research in areas such as combustion engines, advanced automotive controls, acoustics and vibrations, and advanced materials/manufacturing.

FACULTY EXPERTISE

Wayne State’s mechanical engineering faculty members are renowned for their technical leadership and expertise. For example, Professor Naeim Henein and Professor/Department Chair Walter Bryzik, former US Army Chief Scientist, are internationally recognized for their research within the Department’s Center for Automotive Research. Professor Nabil Chalhoub is known for pioneering advanced controls research, and Professor Sean Wu is respected for unique and innovative sound visualization technology. Within the area of advanced composites materials, Professor Golam Newaz’s research offers key automotive fuel economy opportunities. Students benefit greatly from the faculty’s experience and expertise.

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.

SUSAN IWASIUK earned her master’s in mechanical engineering and launched into a long and successful automotive career at Chrysler. Her career highlights include positions in engineering, procurement, supplier quality and, most recently, corporate quality, where she is responsible for defining the strategy and methods used to execute development of world-class vehicles from concept to market launch.