The department offers a master of science (M.S.) and doctor of philosophy (Ph.D.) in mechanical engineering. The graduate programs are designed to train outstanding students for advanced work in industry and research and development through a combination of coursework and hands on research. Online programs in the department include an M.S. with named option in controls and a master of engineering (M.Eng.) with named option in polymer science.

The Department of Mechanical Engineering has a long history of excellence in graduate education. The department is consistently ranked in the top 20 in the United States for graduate programs in mechanical engineering. The department offers research opportunities in a large number of established and emerging research specializations. Broad research themes within the department include: biomechanics, computational engineering, energy, manufacturing, and mechanics and controls. Excellent research facilities are available for specialized research within these broad areas for studies in: biomechanics, combustion, computational design, controls, cryogenics, dynamics and vibrations, fluid dynamics, fluid power, geometric modeling and prototyping, heat and mass transfer, internal combustion engines, laser diagnostics, manufacturing processes, mechanics, mechatronics, polymer and composites processing, powertrain control, robotics, solar energy, and more.

A list of mechanical engineering faculty and their respective areas of specialization is available on the department’s website (http://directory.engr.wisc.edu/me/faculty).


ONLINE PROGRAMS

The mechanical engineering M.Eng. named option: polymer science is a fully online degree that includes an interdisciplinary curriculum of courses incorporating the latest research and practices in plastics and polymer manufacturing. It is designed to prepare engineers for professional practice in the polymer industry. Please visit the Department of Engineering Professional Development’s website (https://epd.wisc.edu/online-degree/master-of-engineering-polymer-science) for complete information about the online polymer science program.

The mechanical engineering M.S. named option: controls is a primarily online degree that includes a full curriculum of courses incorporating the latest research and practices in drive, converter control, and sensor integration. This program consists of 27 online credits and 3 credits taken on campus through a summer laboratory course. The program includes courses in both mechanical engineering and electrical engineering and is designed for practicing engineers. Please visit the Department of Engineering Professional Development’s website (http://