

# MECHANICAL ENGINEERING, B.S.

The Department of Mechanical Engineering (ME) within the University of Wisconsin–Madison College of Engineering is the home of two undergraduate degree programs (mechanical engineering and engineering mechanics, including an option in aerospace engineering) and two graduate degree programs (mechanical engineering and engineering mechanics). The department's faculty conducts research in the areas of advanced manufacturing, biomechanics, computation & data-driven engineering, energy systems, solid & fluid mechanics, and robotics, controls, & sensing. This combination of topics fosters synergies with respect to polymers, mechatronics, aerospace, thermal, materials, additive manufacturing, and fluids. The mechanical engineering undergraduate program has been ranked in the top twelve, and the mechanical engineering graduate program has been ranked in the top seven, among public universities, according to U.S. News and World Report 2022 rankings.

## MECHANICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Graduates from the undergraduate program in mechanical engineering will choose to use the knowledge and skills they have acquired during their undergraduate years to pursue a wide variety of career and life goals. We encourage this diversity of paths.

Independent of whether our graduates choose to pursue a professional career, postgraduate education, or volunteer service in engineering or a different field; we expect that our graduates will achieve the following objectives within three to five years after graduation:

1. They will exhibit a fundamental understanding of broader engineering disciplines with strong skills in mechanical engineering, problem solving, leadership, teamwork, and communication.
2. They will use these skills to contribute to their organizations and communities.
3. They will make thoughtful, well-informed decisions in their career and life.
4. They will demonstrate a continuing commitment to and interest in their own and other's education.