

# MECHANICAL ENGINEERING: RESEARCH, MS

This is a named option in the Mechanical Engineering MS (<http://guide.wisc.edu/graduate/mechanical-engineering/mechanical-engineering-ms/>).

The Department of Mechanical Engineering offers a Master of Science (MS) Mechanical Engineering degree with a named option in Research. The MS Mechanical Engineering: Research degree program takes approximately two years to complete. This program has a significant research component giving students valuable hands-on research experience. Broad research themes within the department include: biomechanics, computational engineering and design, energy systems, advanced manufacturing, mechanics, and robotics, controls and sensing. 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.

All students are mentored by the world-class faculty in the mechanical engineering department at UW–Madison. For a list of mechanical engineering faculty along with faculty research interests, please visit our faculty directory (<https://directory.engr.wisc.edu/display.php/faculty/?page=me&search=faculty>). For more information on research areas see our page on research in Mechanical Engineering (<https://www.engr.wisc.edu/department/mechanical-engineering/research-in-mechanical-engineering/>).