

# MECHANICAL ENGINEERING GRADUATE MAJOR (MENG, MS, PHD)

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This major offers the following option(s):

- Advanced Manufacturing (<http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-meng-ms-phd/advanced-manufacturing-option/>)
- Design (<http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-meng-ms-phd/design-option/>)
- Engineering Management (<http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-meng-ms-phd/engineering-management-option/>)
- Materials Mechanics (<http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-meng-ms-phd/materials-mechanics-option/>)
- Renewable Energy (<http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-meng-ms-phd/renewable-energy-option/>)
- Thermal Fluid Sciences (<http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-meng-ms-phd/thermal-fluid-sciences-option/>)

The School of Mechanical, Industrial, and Manufacturing Engineering offers graduate programs leading to the Master of Engineering, Master of Science, and Doctor of Philosophy degrees. Master's degree candidates may pursue thesis or nonthesis options; students in the nonthesis option must complete additional course work where an individual project may be included.

The mechanical engineering field is diverse, therefore, research activities in the school encompass a broad range of technical endeavors. Areas of research include applied mechanics, solid mechanics, biomechanics, dynamics, stress analysis, design, systems and control, energy, applied thermodynamics, heat transfer, fluid mechanics, metallurgy, and materials science.

In addition, research activities have been directed toward areas of current interest and need, including wind energy, microscale energy conversion, combustion, composite materials, superconductors, advanced materials, impact dynamics, mechatronics, microscale fluid mechanics, diagnostics in design, design for manufacture and computer-aided design and manufacturing, design and control of complex systems.

**Major Code: 3210**

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