INDUSTRIAL ENGINEERING
GRADUATE MAJOR (MENG, MS, PHD)

This major offers the following option(s):

- Advanced Manufacturing (http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/industrial-engineering-meng-ms-phd/advanced-manufacturing-option/)
- Engineering Management (http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/industrial-engineering-meng-ms-phd/engineering-management-option/)
- Information Systems Engineering (http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/industrial-engineering-meng-ms-phd/information-systems-engineering-option/)
- Manufacturing Systems Engineering (http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/industrial-engineering-meng-ms-phd/manufacturing-systems-engineering-option/)

Also available via Ecampus.

Industrial engineering is the application of science, mathematics, and engineering methods to complex system integration and operation. Because the systems with which they work are so large and complex, industrial engineers (IEs) must develop expertise in a wide variety of disciplines, the ability to work well with people, and a broad, systems perspective. All IE graduate students learn advanced methods of system integration and operation. As practitioners, MEng and MS graduates analyze and design facilities, material handling systems, manufacturing processes, information systems, and workstations. They also develop, apply, and oversee policies, procedures, and algorithms for production planning, inventory control, resource allocation and scheduling, quality assurance, and supply chain management. As researchers, MS and PhD graduates advance the field of industrial and manufacturing engineering by their work in industrial corporations and government agencies. As educators, PhD graduates teach and perform research in industrial and manufacturing engineering in universities around the world.

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