



## BY THE NUMBERS

2016-2017

**340**

graduate students in 4 majors

**4**

graduate majors,  
with three degree paths each

**> \$113K**

in annual fellowships

**79%**

of M.S. and Ph.D. students  
supported with RA/TA funding

**54**

tenured/tenure-track faculty,  
including **14** NSF CAREER /  
Young Investigator awardees

**6**

interdisciplinary areas of  
research excellence

**\$ 14.1M**

research expenditures



**Oregon State  
University**

## COLLEGE OF ENGINEERING

# MECHANICAL, INDUSTRIAL, AND MANUFACTURING ENGINEERING

## Graduate Programs

The School of Mechanical, Industrial and Manufacturing Engineering (MIME) offers master of science (MS), master of engineering (MEng), and doctoral (Ph.D.) degrees in mechanical engineering, industrial engineering, materials science, and robotics. These majors encompass multiple primary and secondary disciplinary options:

### Industrial Engineering

- Advanced Manufacturing
- Engineering Management\*
- Human Systems Engineering
- Information Systems Engineering
- Manufacturing Systems Engineering

### Materials Science

- Computational Materials Science
- Structural / Mechanical Behavior
- Electroceramic Materials
- Polymer Materials
- Electronic Materials
- Materials Nanoprocessing

### Mechanical Engineering

- Design
- Mechanics / Materials
- Robotics and Control
- Thermal-Fluid Sciences
- Advanced Manufacturing (secondary option)
- Renewable Energy (secondary option)

### Robotics

- Locomotion
- Artificial Intelligence
- Human/Robot Interactions

### Structure of Degrees

Master of Engineering: 45  
credits (coursework only)

Master of Science: 45 credits  
(coursework and research)

Ph.D.: 108 credits  
(coursework and research)

### \*100% ONLINE Master's Option

Oregon State's College of Engineering offers a master's degree in industrial engineering online, and in 2017 the program was recognized as being among the best of its kind in the nation. The fully online program, which has a focus on engineering management, is ranked **28<sup>th</sup>** nationally by U.S. News and World Report.

## AREAS OF EXCELLENCE: WORLD-CLASS RESEARCH

School of MIME researchers have achieved global prominence in six signature areas of research excellence: **Advanced Manufacturing; Design; Production, Service & Human Systems; Next-Generation Materials & Devices; Renewable Energy & Energy Sustainability; and Robotics.**

### ADVANCED MANUFACTURING:

The Advanced Manufacturing group focuses on fundamental research as well as the commercially feasible development of manufacturing processes and systems that enable high-value products. Specific areas include scalable nanomaterial synthesis and thin-film deposition, powder sintering and injection molding, and additive manufacturing.

### DESIGN:

Design researchers focus on understanding and improving the process of design in order to facilitate the creation of groundbreaking technologies. With six active faculty, the School of MIME has the largest academic mechanical engineering design research lab in the United States.

### PRODUCTION, SERVICE & HUMAN SYSTEMS:

Production, Service & Human Systems research focuses on the design, integration, and optimization of systems to efficiently integrate people, equipment and information.

### NEXT-GENERATION MATERIALS & DEVICES:

Next-Generation Materials & Devices research excellence at the School of MIME addresses the challenges in developing breakthrough, innovative materials with increased functionality. Such research can improve energy productivity and manufacturing processes, reduce waste, and lead to numerous highly functional, high-performance materials technologies.

## ADMISSIONS AND FINANCIAL SUPPORT

We offer a number of graduate fellowships as well as graduate teaching and research assistantships. To be considered for graduate assistantships, the application deadline for Fall admissions is December 31.

For more information, visit [mime.oregonstate.edu/academics/grad](http://mime.oregonstate.edu/academics/grad).



### RENEWABLE ENERGY & ENERGY SUSTAINABILITY:

Renewable Energy & Energy Sustainability research focuses on development of breakthrough concepts, energy products, and systems to address critical environmental, societal, and economic issues while informing practices and attitudes towards energy utilization.

### ROBOTICS:

Robotics researchers focus on design, modeling and control of systems that observe, move within, interact with, and act upon their environment. Such systems include mobile robots, micro-aerial vehicles and large active-sensor networks.

## OREGON STATE UNIVERSITY

As Oregon's leading public research university, Oregon State's impact reaches across the state and beyond.

With 11 colleges, 15 Agricultural Experiment Stations, 35 county Extension offices, the Hatfield Marine Science Center in Newport, and OSU-Cascades in Bend, Oregon State has a presence in every one of Oregon's 36 counties, with a statewide economic footprint of \$2.232 billion.

## COLLEGE OF ENGINEERING

As the 11th largest college of engineering in the nation, our college endeavors to create solutions that promote strong economies, healthy people, and a sustainable natural environment. Our program has a long history of producing world-class engineering graduates who make major impacts on civilization through significant contributions in science and technology. Alumni achievements include breakthrough innovations such as the first artificial heart valve, the computer mouse, and the concept of email.

By emphasizing authentic, experiential engineering experiences within our curriculum, we equip students with the knowledge, skills, and passion to advance innovative solutions to today's most complex engineering challenges in an inclusive environment.

## CORVALLIS, OREGON

A beautiful college town nestled in the heart of the Willamette Valley, Corvallis is consistently ranked among the top 10 college towns in the nation and is known for innovation, education, entertainment, and overall livability. Corvallis embodies the spirit of the Northwest, with beautiful landscapes, friendly citizens, and an outstanding quality of life.

### School of Mechanical, Industrial and Manufacturing Engineering

Oregon State University  
204 Rogers Hall  
Corvallis, OR 97331-2409  
541.737.3441