

Snapshot

HAROLD AND
INGE MARCUS
DEPARTMENT OF
INDUSTRIAL AND
MANUFACTURING
ENGINEERING



Our Mission

As the home of the first industrial engineering program in the world, the Harold and Inge Marcus Department of Industrial and Manufacturing Engineering at Penn State has made a name for itself in the engineering industry through its storied tradition of unparalleled excellence and innovation in research, education, and outreach.



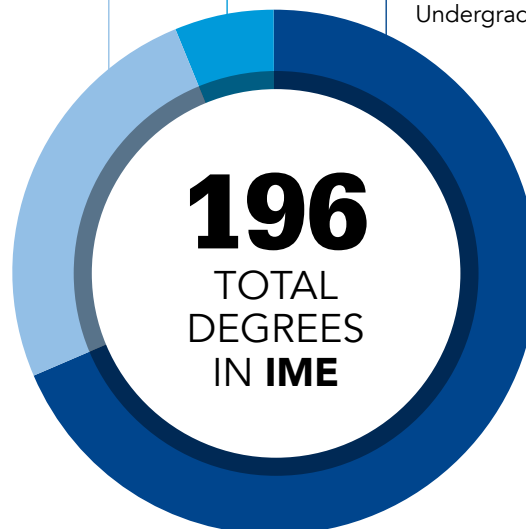
\$4.5
MILLION

2022 Research Expenditures

**Includes externally and internally funded projects, subcontracts, and capital improvements.

Degrees Awarded [2022-23]

50 M.S. 12 Ph.D. 134 Undergraduate



**NSF CAREER
Award
Recipients**



Research Areas

Human Factors/
Ergonomics
Manufacturing
Operations Research
Operations, Services,
and Analytics

25

Faculty

Enrollment

394

Undergraduate
(third- and fourth-year students)

84

Master's

92

Ph.D.



**U.S. News
Rankings**

**UNDERGRADUATE: 9
GRADUATE: 10**



Hands-On Learning

Students enrolled in the industrial engineering program at Penn State have the unique opportunity to learn and perform research in the Factory for Advanced Manufacturing Education (FAME). FAME is a 10,000-square-foot integrated high bay laboratory with many elements found in a real manufacturing facility. It houses diverse manufacturing processes including casting, welding, machining, forming, injection molding, and assembly systems. In addition, the lab includes automated high-tech facilities for robotics and assembly, featuring computer-integrated manufacturing cells and robots.

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Degrees Offered

- B.S. in Industrial Engineering
- M.S. in Industrial Engineering (Non-Thesis and Thesis Tracks)
- Dual M.S. in Industrial Engineering and Operations Research
- Ph.D. in Industrial Engineering
- Ph.D. in Industrial Engineering with a Minor in Operations Research
- Dual Ph.D. in Industrial Engineering and Operations Research
- M.Eng. in Industrial Engineering (Penn State World Campus)



Research Centers and Initiatives

- Center for e-Design
- Center for Health Organization Transformation
- Center for Innovative Materials Processing through Direct Digital Deposition
- Consortium for Digital Enterprises
- Initiative for Sustainable Electric Power Systems

Research Labs

- Additive Manufacturing and Reverse Engineering Lab
- Benjamin W. Niebel Work Design Lab
- Bridging Research in Innovation, Technology, and Engineering Lab
- Complex Systems Monitoring, Modeling, and Controls Lab
- Design Analysis Technology Advancement Lab
- Distributed Intelligent Systems and Controls: Research, Education, and Technology Lab
- Engineering Statistics and Machine Learning Lab
- Factory for Advanced Manufacturing Education
- Human Performance Assessment and Modeling Lab
- Human Subjects Testing Lab
- Laboratory for Intelligent Systems and Analytics
- Materials Processing and Characterization Lab
- Optimization Modeling and Application Lab
- Precision and Quality Measurements Lab
- Process Mechanics/Workholding Lab
- Service Engineering and Applied Optimization Lab
- Smart Lab