

EXPLORE

# Industrial Engineering



**PennState**  
College of Engineering

The industrial engineering program at Penn State is consistently ranked as one of the top programs in the United States by U.S. News and World Report.



Our curriculum provides a broad-based education in human factors and ergonomics, manufacturing, operations research, and production, supply chain, and service engineering.

The program provides a strong foundation for students through mathematics, physical, and engineering sciences, along with hands-on laboratory and industrial experiences, to become professional component and versatile industrial engineers.

Our graduates are trained to excel in both a traditional manufacturing environment and in a much broader global context.

Industrial engineers from Penn State have established successful careers in financial services, communications, information technology, transportation, health care, consulting, and academia.

Students have access to speakers, career fairs, plant tours, conferences, competitions, professional contacts, leadership opportunities, and social events.

We also work with a number of professional industrial engineering societies to provide students with opportunities to explore industrial engineering beyond the classroom and to network with Penn State industrial engineering alumni.

## Engineering Co-op & Internship Program

Integrate classroom learning with real-world experience

## Study Abroad Program

Gain a worldwide perspective as you develop foreign language skills, cultural understanding, and professional experience



## Graduate Program

Broaden educational credentials and improve your marketability in the global workplace

**AVERAGE ENTRY-LEVEL SALARY  
OF INDUSTRIAL ENGINEERING  
GRADUATES**

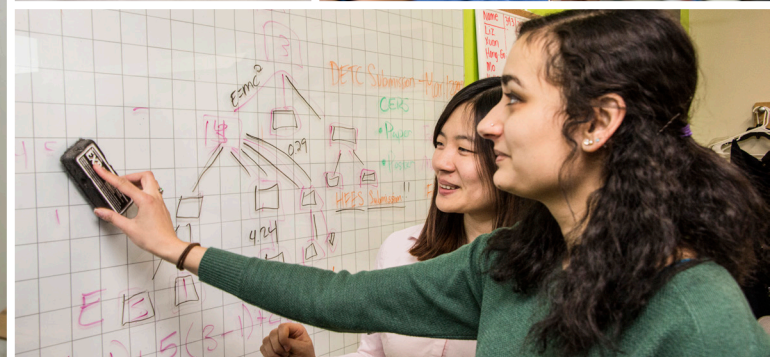
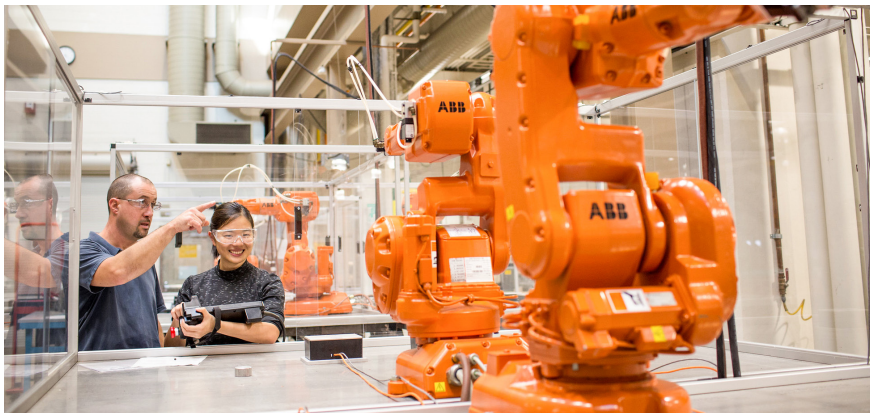
# \$71,200

[career.engr.psu.edu/students/undergraduate/salary.aspx](https://career.engr.psu.edu/students/undergraduate/salary.aspx)

Hear from students and alumni by watching the Exposure to Major video series:  
[bit.ly/PennStateEngineering](https://bit.ly/PennStateEngineering)

**IE**





# What is an industrial engineer?

Industrial engineers design integrated systems and processes to improve productivity, safety, and quality. Industrial engineers determine how to do things better through eliminating waste of time, materials, and money. Rooted in the sciences of engineering, the analysis of systems, and the management of people, industrial engineers work to improve a wide variety of systems, including manufacturing consumer products, logistics, financial operations, health care systems, and amusement park operations. Industrial engineers are responsible for refining the effectiveness and the competitiveness of an organization.

**Examples of career opportunities:** Analyzing and optimizing manufacturing and service systems; developing and improving plant layouts to maximize efficient use of space; equipment; and labor; implementing Lean Manufacturing/Six Sigma tools to improve quality and efficiency; applying industrial engineering techniques to solve complex business problems; implementing engineering initiatives to help drive efficiency and service within a distribution center or supply chain; applying analytics and engineering management concepts in a health care environment



**Stephanie Vojtek**  
Senior

*"Studying industrial engineering leads to diverse opportunities and flexibility in the professional world. I especially like Penn State's program because it facilitates students molding their own personal experience with a wide range of courses, research labs, and related clubs and organizations to develop our future careers. From the faculty and staff to the labs and facilities, they are dedicated to supporting us, challenging us, and preparing us to be the best engineers possible."*



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