

INDUSTRIAL ENGINEERING, B.S. (ENGINEERING)

Begin Campus: Any Penn State Campus

End Campus: University Park

Career Paths

An undergraduate degree in industrial engineering from Penn State is beneficial in a number of sectors, from finance and banking to manufacturing and material handling to ergonomics and workplace safety to a wide variety of industries within the service world (including theme parks, call centers, hospitals, etc.). Industrial engineers also have an attractive background to a number of graduate degrees that would compliment their skills including engineering design, operations research, mechanical engineering, supply chain management, business management, and more.

Careers

- Human Factors/Ergonomics: Business intelligence team leader, cognitive engineer, ergonomics assessment specialist, ergonomics expert, design engineer, systems engineer, usability expert, user experience engineer.
- Manufacturing: Manufacturing operations manager, production engineer, process control analyst, quality engineering manager, lean Six Sigma manager, product design/specification specialist, cost analysis manager, supply chain manager.
- Operations Research: Operations research engineer, applied research manager, performance engineer, process improvement engineer, global business intelligence and analytics director, operations engineer, statistician.
- Production, Supply Chain, and Service: Enterprise Engineering Analytics manager, global statistics manager, quality assurance director, strategic sourcing manager, operations engineer, new product engineer, process engineer, e-commerce manager, material scientists, service business development manager, Six Sigma analyst.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE INDUSTRIAL ENGINEERING PROGRAM (<https://career.engr.psu.edu>)

Opportunities for Graduate Studies

Opportunities for students with an undergraduate degree in industrial engineering are vast. The following disciplines would highly value an education in industrial engineering in graduate studies: engineering science and mechanics, business management, supply chain management, mechanical engineering, statistics, computer systems, engineering design, operations research, systems engineering, engineering management, economics and more.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<https://www.ime.psu.edu/students/graduate/>)

Professional Resources

- Institute of Industrial and Systems Engineers (<https://www.iise.org/Home/>)
- Institute for Operations Research and the Management Sciences (<https://www.informs.org>)

- Human Factors and Ergonomics Society (<https://www.hfes.org>)
- Society of Manufacturing Engineers (SME) (<https://www.sme.org>)