

The background of the entire page is a dark blue and black space. In the center, a globe of the Earth is visible, showing continents and oceans. Overlaid on the globe are numerous glowing blue lines that form a complex network of arcs and straight paths, representing global logistics, systems, and processes. The lines are bright and have a slight glow, creating a sense of dynamic movement and connectivity.

# **INDUSTRIAL ENGINEERING**

**IE.UH.EDU**

**OPTIMIZING GLOBAL  
LOGISTICS, SYSTEMS  
AND PROCESSES**

UNIVERSITY of **HOUSTON** | ENGINEERING

## WHAT IS INDUSTRIAL ENGINEERING?

Industrial engineers are optimization experts, focusing on the effective use of people, machines, materials, information and energy to improve processes for products and services. This unique engineering field includes the development of analytical methods and techniques that concentrate on higher productivity and better quality. Firms looking to develop more efficient processes hire industrial engineers to reduce costs and waste while increasing safety and efficiency.

## WHY THE UNIVERSITY OF HOUSTON?

The industrial engineering department at the UH Cullen College of Engineering is highly-ranked, consisting of top-performing students and world-class faculty and researchers. Industrial engineering graduate students are taught by professors who are actively conducting research in the areas of healthcare and medical decisionmaking, homeland and port security, energy, reliability and maintenance, logistics and transportation, supply chains and manufacturing. Graduate students are exposed to professional and research opportunities throughout their education.

## WHAT CAN I DO WITH AN INDUSTRIAL ENGINEERING GRADUATE DEGREE?

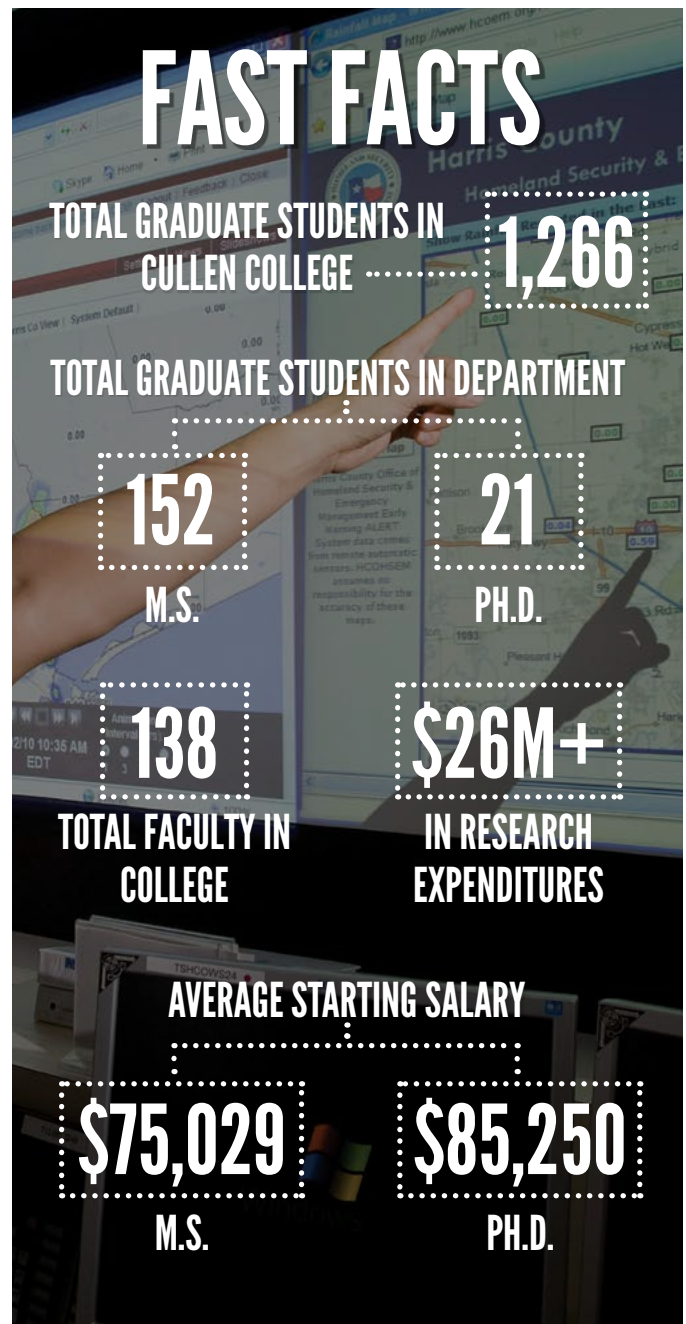
Industrial engineers are trained to work virtually anywhere in industry to improve system performance. Specific industries include manufacturing, logistics and transportation, supply chain, energy, oil and gas, healthcare, retail, hotel chains, airlines, construction companies, banks, social services and government.

A 2017 salary survey produced by the National Association of Colleges and Employers found that new graduates with an M.S. in industrial/manufacturing engineering earn an average starting salary of \$75,029. Payscale.com reports that graduates with a Ph.D. earn an average annual salary of \$85,250.

## WHAT TYPES OF GRADUATE DEGREES DO YOU OFFER IN INDUSTRIAL ENGINEERING?

The UH Cullen College of Engineering offers a Master's degree in IE (MIE), Master of Science (MSIE) degree and a Ph.D. degree. The following special programs are also available to industrial engineering graduate students:

- **MIE/MBA concurrent degree:** The UH Cullen College of Engineering and the C. T. Bauer College of Business at the University of Houston offer a concurrent degree program that enables students to prepare for careers in which the understanding of both engineering science and business studies is critical. This program provides students with the opportunity to complete the degree requirements for the MBA and MIE in a shorter period of time than if the two degrees were pursued separately.



- **MIE with concentration in public safety management:** Recognizing that industrial engineering can play a vital role in some of the most pressing issues facing industry and government in planning, managing and delivering public safety services, this concentration provides a solid education for understanding and tackling interdisciplinary issues at the intersection of public safety management and industrial engineering.

## FOR MORE INFORMATION

For more information on eligibility and admissions requirements, please visit [www.ie.uh.edu/graduate-program/overview](http://www.ie.uh.edu/graduate-program/overview)