Industrial Engineering:
Where Engineering Means Business &
the Business is Engineering

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What is Industrial Engineering?

The design, improvement and installation of integrated systems of people, materials, information, equipment, funding, and energy with
- specialized knowledge and skill in the mathematical, physical, and social sciences
- principles and methods of engineering analysis and design.

Where Engineering Means Business & the Business is Engineering

Speed up delivery through “supply chain”

Manage projects by mapping out who does what, when, and look for ways to do it BETTER.
What Industrial Engineers Do?

IEs make processes better by:

• Creating a systematic way to meet customer needs;
• Promoting efficiency, quality, and cost effectiveness;
• Developing a better way to make a product faster and easier to use; and
• Considering safety and human factors.

They examine and analyze to find better ways to solve problems.

The Boeing Company demonstrating a better way to lift an airplane door for assembly.

IEs at Disney made the lines more efficient so you can have fun!
Why IE Degree?

• Great salary for a bachelor’s degree
  ✓ Unlimited opportunities
  ✓ Small towns, big cities
  ✓ Small companies, large firms
  ✓ International sites
  ✓ Manufacturing, service, finance, healthcare, and many other sectors
• Respected career with increasing demand
• Active engagement with other professionals
• Opportunity to make a large-scale difference

Harley Davidson air brushed gas tank for the Ergo Cup competition for Process Improvement
Who are Industrial Engineers?

- Charles "Chad" O. Holliday
  Chairman of Bank of America
  Former CEO of DuPont
  BS in IE at UTK
  Finance and Production Systems

- Joe Girardi
  Manager, NY Yankees
  Sports & Entertainment Systems

- Tim Cook
  CEO of Apple
  Production & Logistics Systems

- Michael Eskew
  Former President & CEO, UPS
  Logistics System

- Grace Lieblein
  VP Global Purchasing and Supply Chain
  General Motors

- You could be in this picture
IE at UTK

- A student-centered caring culture
- An up-to-date curriculum where learning and practice intersect
- Many co-op and internship opportunities (Highest employees/students ratio in the College of Engineering in Fall, 2013)
- High job placement rate
- Strong alumni network
- Female friendly engineering

Moved to the New Building in Fall, 2013!
Where are Our Graduates?

Employers:
- Wynn-Dixie
- BMW
- Manhattan Associates (multiple)
- Fey Safety Systems
- Google
- Amazon (multiple)
- UT Dual Degree Program
- UT Medical Center
- Schneider Electric
- Target
- Schlumberger
- Parker-Hannifin
- Eaton
- Eastman

Medium Salary is $65,000 with possible signing bonus and stock options
IE at UTK

Tenured or Tenure Track Faculty: 12

Research and Adjunct Faculty: 5

Visiting Scholars: 8

Graduate Students: 130

Undergraduate Students: 120
Research Areas

Energy & Sustainability

Lean & Agile Systems (Six Sigma)

Reliability

Lean Healthcare Informatics

Supply Chain and Logistics Engineering

Engineering Management

Human Behaviors

Operations Research (Optimization)

Industrial & Systems Engineering at UTK
Is Industrial Engineering for Me?

• Are you a leader or do you want to be a leader?
• Do you think of new or better ways to do things?
• Do you like to figure things out?
• Do you find people to be fascinating?
• Are you good at math and or science?
• Do you like to take things apart and put them back together to learn how they work?
Financial Support

• The HOPE Scholarship for qualified high school students from TN.  
  www.tn.gov/collegepays/

• A number of scholarship opportunities at the University and College.  
  web.utk.edu/~finaid/ and www.engr.utk.edu/futurestudents/aid.html

• The ISE department offers a generous undergraduate scholarship program.  
  http://ise.utk.edu/undergraduate/undergraduate-scholarships/
Interested? Please Contact US

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