

INDUSTRIAL ENGINEERING SPECIALTY

WHAT IS INDUSTRIAL ENGINEERING (IE)?

Industrial Engineering is the branch of engineering concerned with the design, improvement, and installation of integrated systems of people, material, information, equipment, and energy.



WHAT DO INDUSTRIAL ENGINEERS DO?

IE gives you the opportunity to work in a variety of businesses. Industrial engineers figure out how to do things better. They engineer processes and systems that improve quality and productivity. They make significant contributions to their employers by saving money while making the workplace better for fellow workers.



WHERE DO INDUSTRIAL ENGINEERS WORK?

Manufacturing firms and service industries hire a significant number of Industrial Engineers. Today, more and more businesses hire Industrial Engineers in areas like sales and marketing, finance, information systems, and personnel. Other industries employing Industrial Engineers are hospitals, airlines, banks, railroads, and social services.



HOW CAN YOU BECOME AN IE?

You can prepare early by taking advanced high school physical sciences and mathematics courses. On average, it takes four years to earn a bachelor's degree in industrial engineering. Typically, the first two years are spent studying basic sciences (mathematics, physics, and chemistry), introductory engineering, the humanities, social sciences, and English. During the last two years, most courses will concentrate on industrial engineering.



HOW MUCH CAN INDUSTRIAL ENGINEERS EARN?

According to a 2001 salary survey by the National Association of Colleges and Employers, bachelor's degree candidates in industrial engineering received starting offers averaging about \$43,100 a year; master's degree candidates, \$49,900.

DISTRIBUTION OF EMPLOYMENT BY ENGINEERING SPECIALTY (2001)

Specialty	Employment	Percent
Electrical	288,000	20
Civil	232,000	16
Mechanical	221,000	15
Industrial	198,000	14
Computer	60,000	4
Aerospace	52,000	4
Chemical	33,000	2
Materials	33,000	2
Nuclear	14,000	1
Petroleum	9,000	1
Biomedical	7,200	1
All other engineers	280,000	20

ENGINEERING AT THE UNIVERSITY OF TENNESSEE AT CHATTANOOGA (UTC)

The B.S. Engineering program at the University of Tennessee at Chattanooga (UTC) is accredited by the Engineering Accreditation Commission/ Accreditation Board of Engineering and Technology (ABET).

INDUSTRIAL ENGINEERING SPECIALTY AT UTC

The industrial specialty at UTC promotes life-long learning by providing accessible undergraduate, graduate, and continuing education in the theory and practical application of industrial engineering while creating a supportive environment that enables students and faculty to excel.

The industrial specialty faculty has experience in a variety of service and manufacturing industry. The faculty works closely with the students in and out of the classroom.

For more information, please visit the UTC Industrial Specialty website at <http://www.utc.edu/engr/Industrial>.



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THE UNIVERSITY OF TENNESSEE AT
CHATTANOOGA (UTC)

INDUSTRIAL ENGINEERING SPECIALTY

21ST CENTURY'S CAREER

To understand people at work.
To manage resources effectively.
To make high quality products.
To excel in the 21st century, be an
“industrial engineer”.



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