

What can I do with this degree?

COMPUTER ENGINEERING TECHNOLOGY

AREAS

ELECTRICAL/COMPUTER

Power Electronics
Power Systems
Communications
Electronics
Control Systems
Digital Signal Processing
Microelectronics
Image Processing & Robotics
Computer Engineering
Plasma Engineering
Computer Vision

EMPLOYERS

Manufacturing firms and industry including: Aeronautical/Aerospace, Automotive, Business machines, Professional and scientific equipment, Consumer products, Chemical and petrochemical, Computers, Construction, Defense, Electric utilities, Electronics, Environmental, Food and beverage, Glass, ceramics, and metals, Machine tools, Mining and metallurgy, Nuclear, Oceanography, Pulp and paper, Textiles, Transportation, Water and wastewater
Public utilities
Federal government including: Armed forces, National Aeronautics and Space Administration (NASA), National Institutes of Health, Bureau of Standards, Department of Defense, Various commissions
Consulting firms
Free-lance consulting

STRATEGIES

A field in touch with a wide and growing range of applications such as high speed and wireless communication, exploration of outer space, and a revolution in medical diagnosis and treatment.

Develop effective verbal and written communication skills. Gain experience in team work. Acquire capacity for details. Develop interpersonal skills. Obtain research experience.

AREAS

ANY ENGINEERING DISCIPLINE

Production
Sales and Marketing
Management

Consulting
Research and Development
Teaching
Law

EMPLOYERS

Industry
Business
Federal, state, and local government
Colleges and universities

STRATEGIES

Obtain related experience through co-op or internships for business/industry-related career. MBA degree provides best opportunities in technical management. Obtain Ph.D. for optimal teaching and research careers. Develop strong verbal and written communication skills. Learn federal, state, and local government job application procedures.

AREAS

ENGINEERING SCIENCE AND MECHANICS

Engineering Mechanics
Biomedical Engineering
Computational Mechanics
Engineering Materials

EMPLOYERS

Industry
Manufacturing
Research organizations

STRATEGIES

Interdisciplinary program with broad training in engineering science, mathematics, and physical or biological science.

GENERAL INFORMATION

Bachelor's degree provides wide range of career opportunities in industry, business, and government.

Graduate degrees offer more opportunities for career advancement.

Bachelor's degree is good background for pursuing technical graduate degrees as well as professional degrees in Business Administration, Medicine or Law.

Related work experience obtained through co-op, internships, part-time or summer jobs, or regular employment is extremely beneficial.

Develop computer expertise within field.

Engineers need to think in scientific and mathematical terms, have ability to study data, sort out important facts, solve problems, and be logical thinkers. Creativity is useful.

Other helpful traits include intellectual curiosity, technical aptitude, perseverance, ability to communicate and work well with others, a commitment to teamwork, and a basic understanding of the economic and environmental context in which engineering is practiced.

Develop excellent verbal and written communications skills including presentation and technical report writing.

All states and the District of Columbia require registration of engineers whose work may affect the life, health, or safety of the public.

Professional or technical societies confer certification in some areas.

Join related professional organizations.

Most fields offer overseas opportunities with businesses or government agencies.

Because of rapid changes in most engineering fields, both continued education and keeping abreast of new developments are very important.

Most states require an EIT (Engineer-In-Training) test before taking a state examination to become a Professional Engineer (PE).

Search the Internet for additional information about individual disciplines.

Prepared by the Career Planning staff at Career Services of The University of Tennessee, Knoxville. (2005) UTK is an EEO/AA/Title VI/Title IX/Section 504/ADA /ADEA Employer