Welcome to Texas A&M University - Commerce

Department of Engineering & Technology
www.TAMUC.edu/IET

Problem Solvers

Students Benefit

Faculty Advisors & Success Coaches

Registration

Admissions & Orientation Team

Engineering Education & Outreach

Solutionists

Answering the WHAT-IF

- Project Controls
- 3D Imaging
- Sustainability
- Civil Engineering Fundamentals
- Managing Sustainability
- Managing Efficiency
- Cost Engineering / Cost Analysis

CONE

IE

TMGT

- Economic Analysis
- Facility Planning
- Cost of Quality

Start

Relationship

Feedback

Students

Students

RESEARCH

INSTRUCTION

ANALYSIS & DESIGN

PRACTICAL INGENUITY

INFUSION OF REAL WORLD EXPERIENCES

Students

Science, Technology, Engineering, Mathematics
CONSTRUCTION ENGINEERS (CON) – “To create things, to actually see them being built ... it’s very rewarding to see the results of what you saw on paper. It gives you a lot of personal satisfaction.” Civil engineers build whatever allows society to function and flourish. That includes structural engineering, water resources, transportation, geotechnical engineering, and construction engineering. There are at least a dozen specialties in this vital field. The program prepares you for the professional engineering licensure examination.

IF YOU WANT TO

DO SOMETHING

INDUSTRIAL ENGINEERS (IE) – “If you like to make things better, then think about this career.” These engineers can pick their work environments, which range from hospitals to theme parks, candy factories to defense companies, or transportation hubs to space agencies. They look for new ways to reduce costs, speed up delays, increase the safety of people, and help the earth stay clean! The program prepares you for the professional engineering licensure examination. ABET accredited.

TECHNOLOGY MANAGEMENT (TMGT) – UNDERGRADUATE “Managing projects and operations is a satisfying and active life.” This program offers you the practical industrial and construction management skills needed in a variety of positions. The job titles vary, but some examples are construction manager, cost estimator, superintendent, industrial production manager, project manager, administrative services manager, industrial property manager, safety inspector, and program analyst. Undergraduates are prepared and encouraged to continue their education by obtaining the Master of Science degree in technology management.

FIND FULFILLMENT

MAKE A GOOD LIVING

MORE ENGINEERING & TECHNOLOGY UNDERGRADUATE INFORMATION
Scholarships -- YouTube Video -- Program Descriptions
Community College Transfer Agreement
www.TAMUC.edu/IET
CONSTRUCTION ENGINEERING
- Civil engineering fundamentals
- Construction methods & processes
  - Structural principles
  - Site analysis
  - Soil mechanics
- Traditional & sustainable materials
  - Equipment
  - Engineering project management
  - Contracting
  - Applicable laws & regulations
  - Building information modeling

INDUSTRIAL ENGINEERING
- Systems design, engineering & simulation
- Automation
- Product design & development
- Engineering economy
- Facilities planning
- Operations research
- Probability & statistics
- Project & quality management
- Statistical quality control
- Manufacturing, production, & service systems

TECHNOLOGY/CONSTRUCTION MANAGEMENT
- Quality control & improvement
- Project management
  - Cost engineering
  - Scientific knowledge
  - Engineering methods
- Leadership for industrial organizations & construction firms

DEPARTMENT OF ENGINEERING & TECHNOLOGY
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SOURCES: Job growth rates, salaries, career descriptions collected at The U.S. Bureau of Labor Statistics (bls.gov), the Texas Workforce Commission (twc.state.tx.us), and the Texas Higher Education Coordinating Board (thecb.state.tx.us).

Median Salary: $76,000

Companies and alumni partner with A&M-Commerce engineering & technology mentoring, guest speaking, contributions, and much more!
The American Society of Civil Engineers maintains a long-standing partnership with the American Red Cross.

Through this relationship, ASCE helps to raise tens of thousands of dollars in relief funds on behalf of the civil engineering community.

LIFE TAKES ENGINEERING

An engineer improves people's lives in concrete, meaningful ways:

- Safer drinking water
- Developing new foods
- Making cars safer
- Protecting the rain forest
- Developing new fabrics
- Traffic design
- Making homes safer
- Turning deserts into farmland
- Wind power and solar energy
IMAGINEERS
FREE TO EXPLORE

Engineers and technology managers are never bored. They see life as a journey, a quest for better ideas. Seeking out problems that need solving, they ask, “How does it work?”, “Where does it go?”, “What will happen if?” Engineers and technology managers want to explore and discover.

PRACTICAL INGENUITY

Engineering and technology management could not be more relevant. Our society is becoming increasingly complex. We must provide more food and energy for a rapidly growing population, and we must limit damage to the environment in the process. Engineering and technology management will play a big role in meeting these challenges.

DESIGN CREATE INVENT
Engineers work with other smart creative people like animators, physicists, astronomers, architects, meteorologists, and all kinds of scientists. They are nimble and quick, able to think on their feet and work wonders using the tools and technologies available to them.
TECHNOLOGY MANAGEMENT OFFERS MANY LUCRATIVE CAREER OPTIONS IN INDUSTRIAL ENTERPRISES AND CONSTRUCTION MANAGEMENT.

IT’S WORTH THE HARD WORK IT TAKES TO BECOME A TECHNOLOGY MANAGER.

IDEAS IN ACTION, SHAPE FUTURE

- Engineers and Technology Managers like
- Seeing their ideas come to life and
- Having a direct effect on people’s everyday lives is
- Far and away the most rewarding aspect of the job

LEAD INNOVATE COLLABORATE

- Engineers and Technology Managers dream up ways to use their knowledge
- Making Things Better
- Faster, Safer
- More Efficient
- It’s good for our economy
- It’s big business
- It provides millions of jobs
- It makes Texas stronger and more competitive