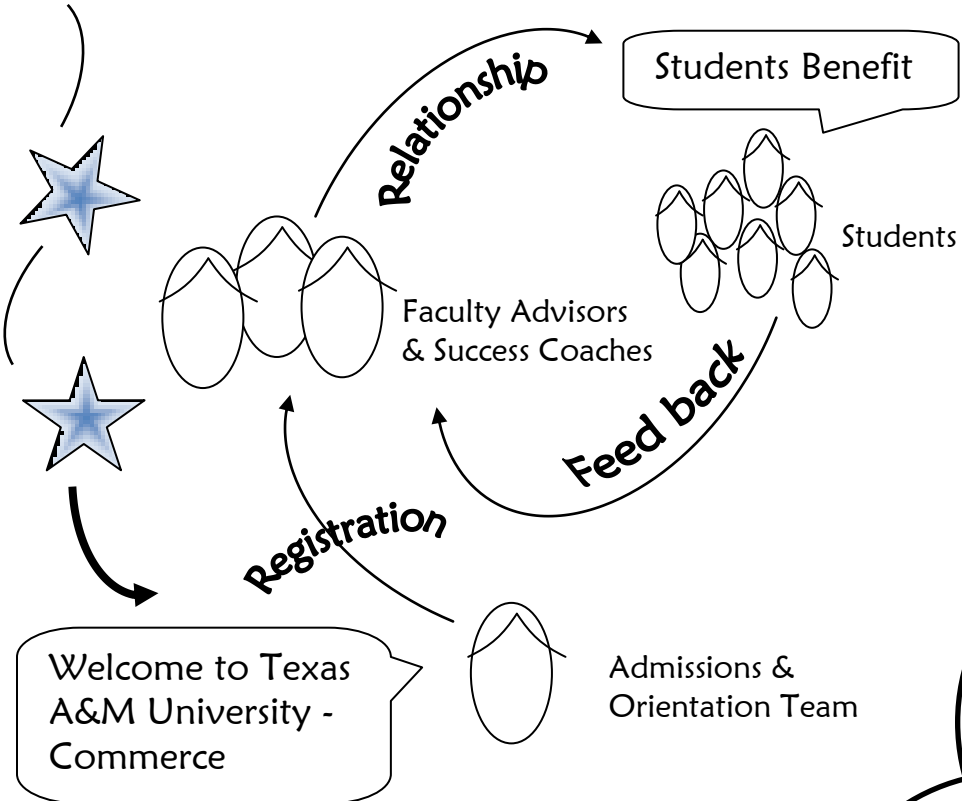
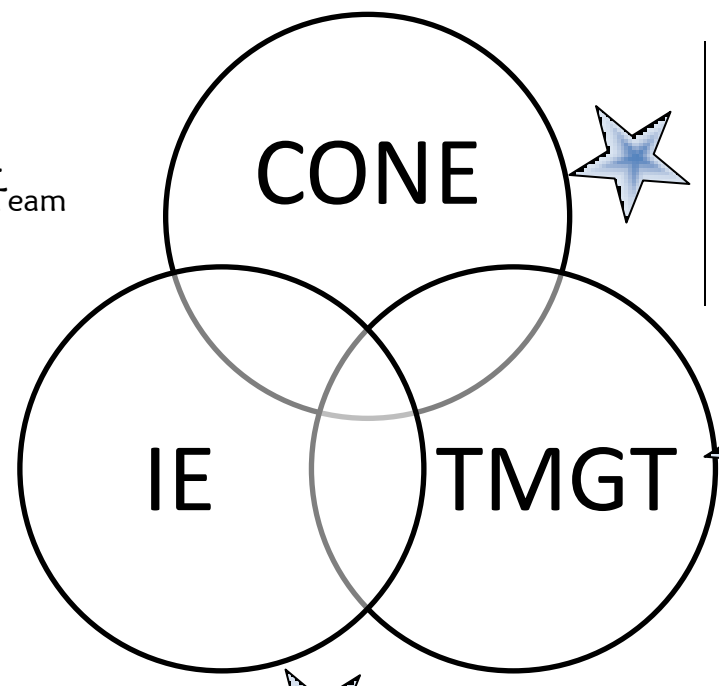


START
Engineering Education & Outreach



Answering the WHAT-IF

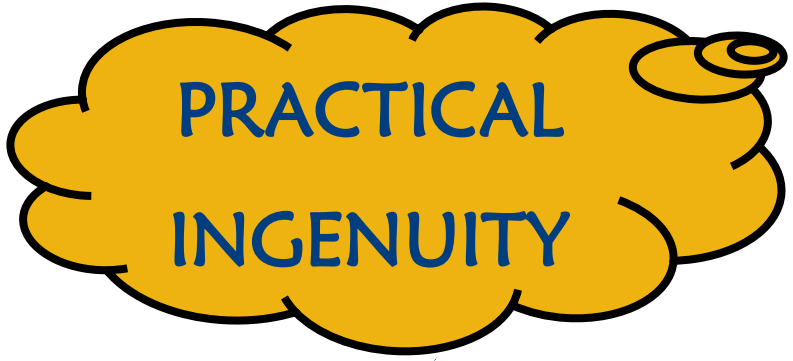


- Project Controls
- 3D Imaging
- Sustainability
- Civil Engineering Fundamentals

- Managing Sustainability
- Managing Efficiency
- Cost Engineering / Cost Analysis

- Economic Analysis
- Facility Planning
- Cost of Quality

ANALYSIS & DESIGN

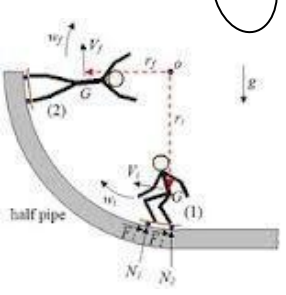
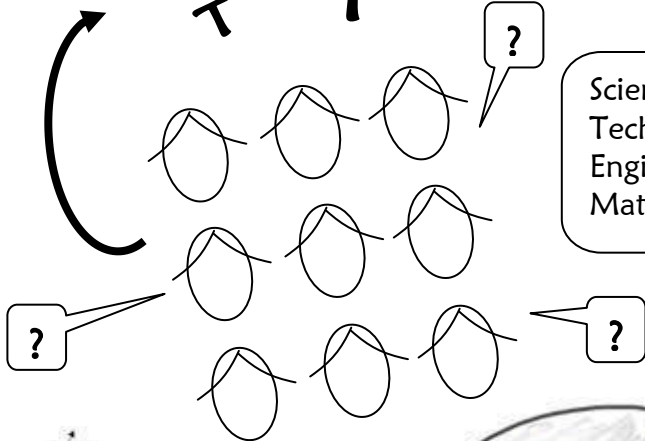


Department of Engineering & Technology
www.TAMUC.edu/IET

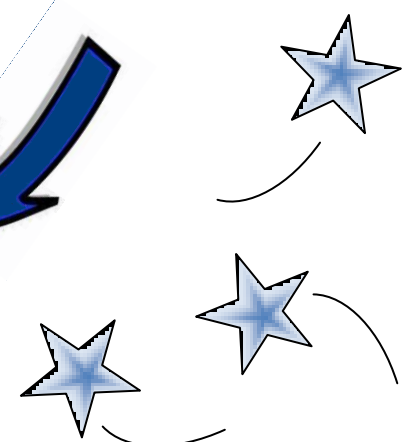
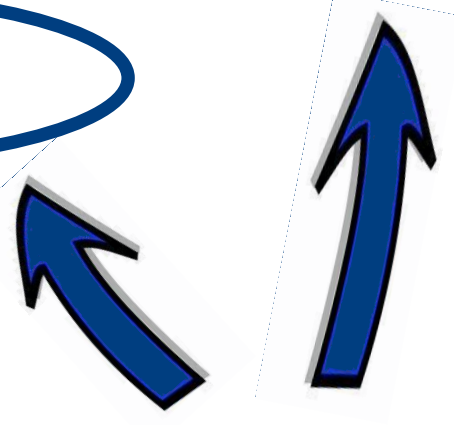


DESIGN, CREATE, INVENT

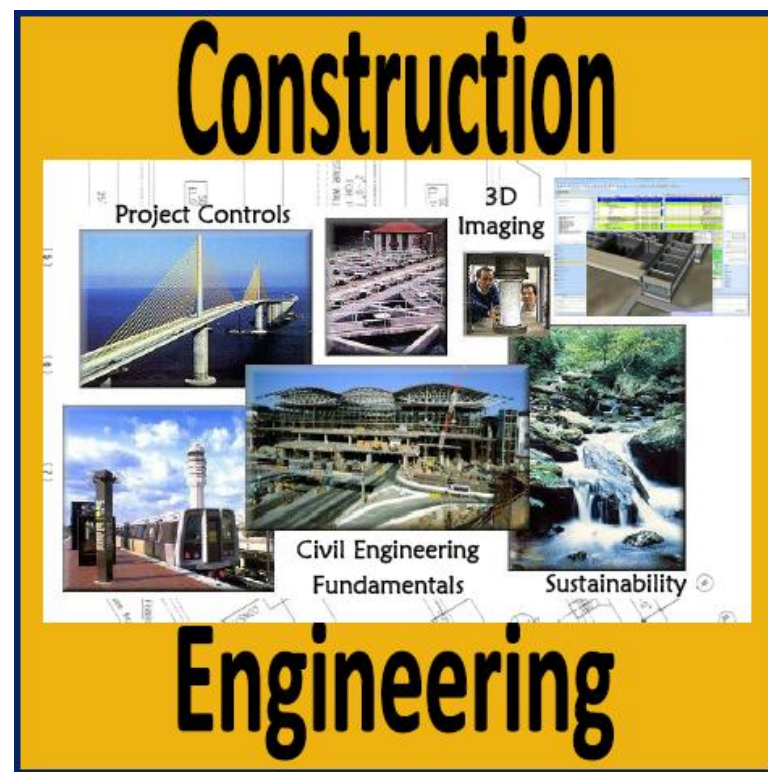
Science, Technology, Engineering, Mathematics



$$\nabla f(x_0) \cdot (x - x_0) = 0$$

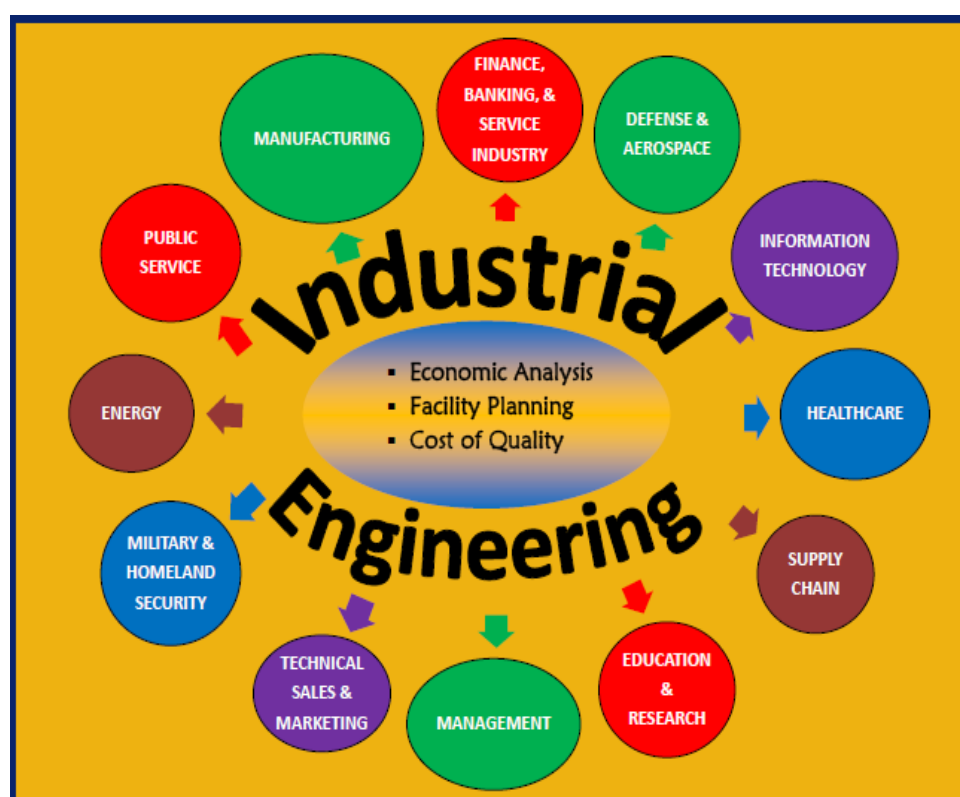


CONSTRUCTION ENGINEERS (CONE) – *"To create things, to actually see them being built ... it's very rewarding to see the results of what you saw on paper. It gives you a lot of personal satisfaction."* Civil engineers build whatever allows society to function and flourish. That includes structural engineering, 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.

**FIND FULFILLMENT
IMPACT LIFE**

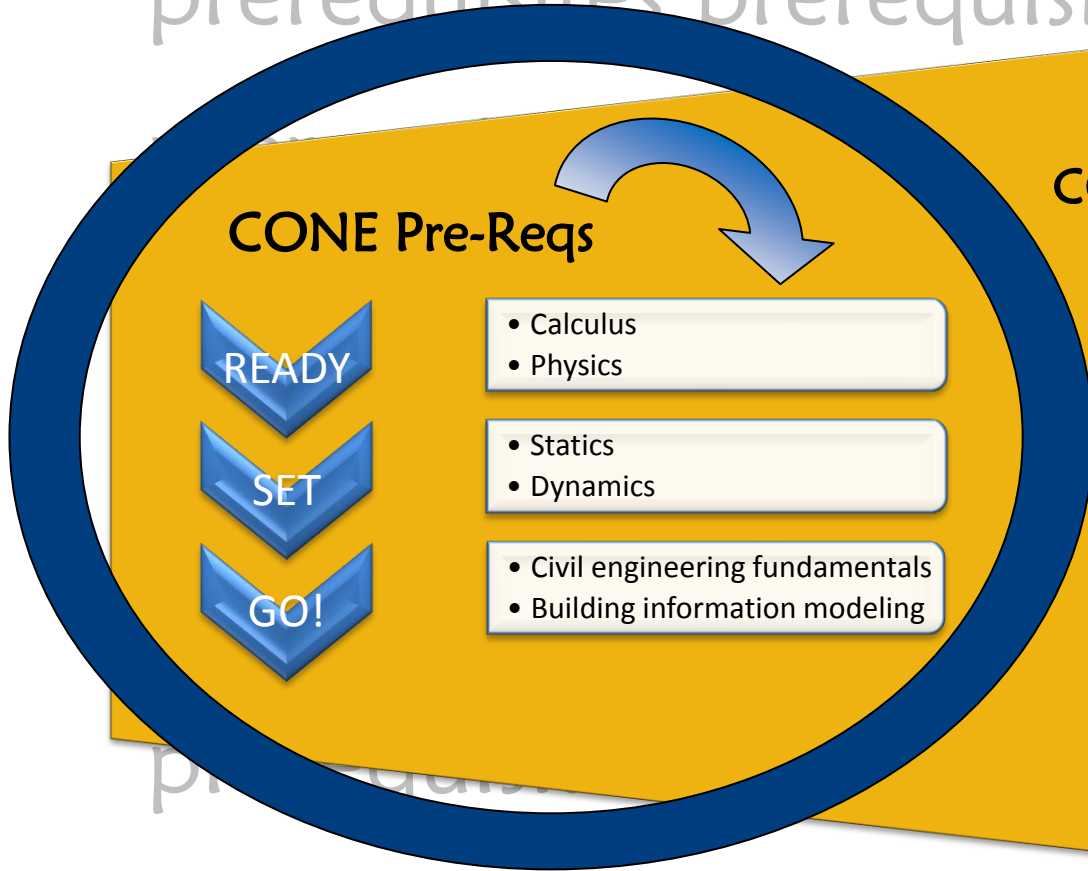
**MAKE A
GOOD LIVING**

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.



MORE ENGINEERING & TECHNOLOGY UNDERGRADUATE INFORMATION

Scholarships -- YouTube Video -- Program Descriptions
Community College Transfer Agreement
www.TAMUC.edu/IET

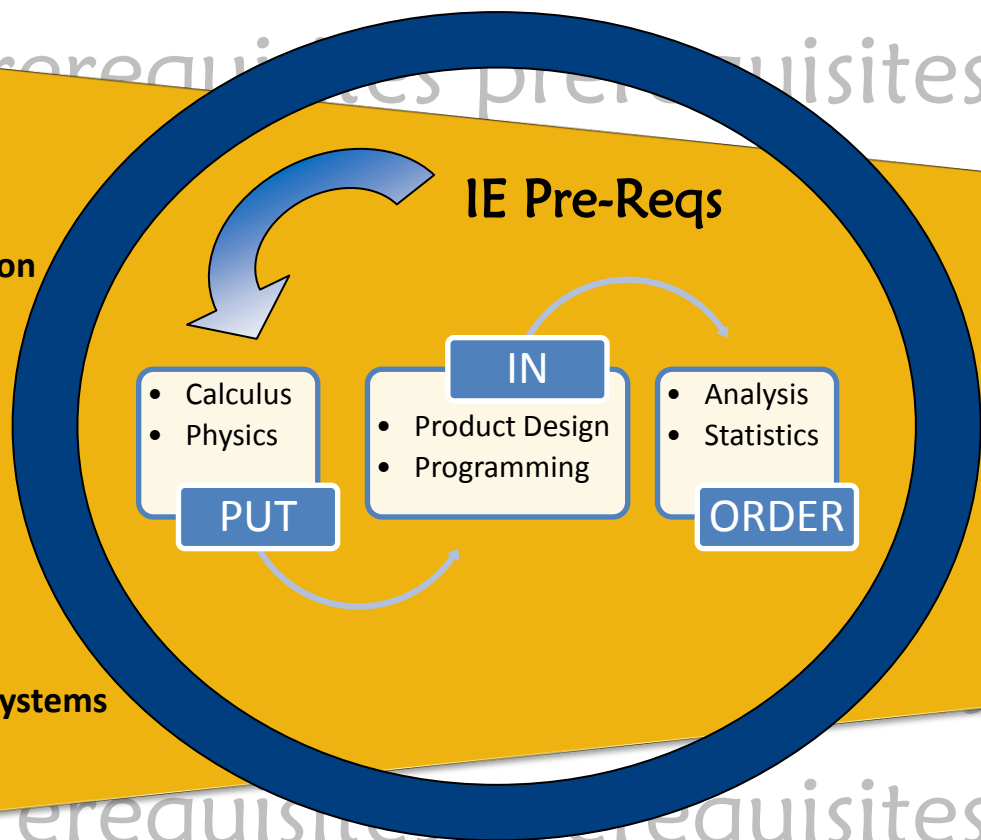


CONSTRUCTION ENGINEERING

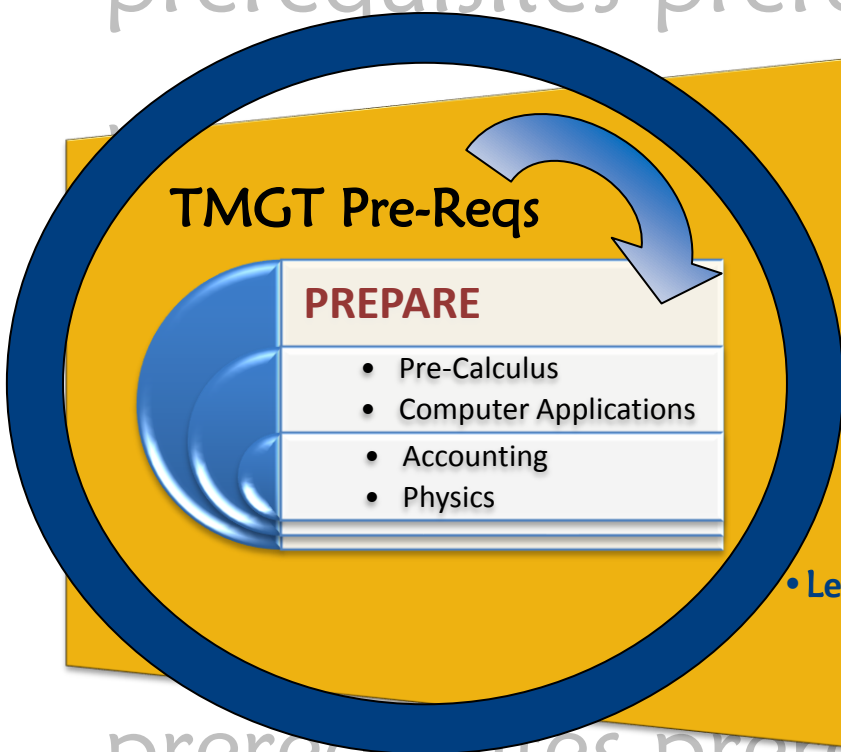
- Civil engineering fundamentals
- Construction methods & processes
 - Structural principles
 - Site analysis
 - Soil mechanics
- Traditional & sustainable materials
 - Equipment
- Engineering project management
 - Contracting
- Applicable laws & regulations
- Building information modeling

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



TMGT Pre-Reqs



TECHNOLOGY/CONSTRUCTION MANAGEMENT

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



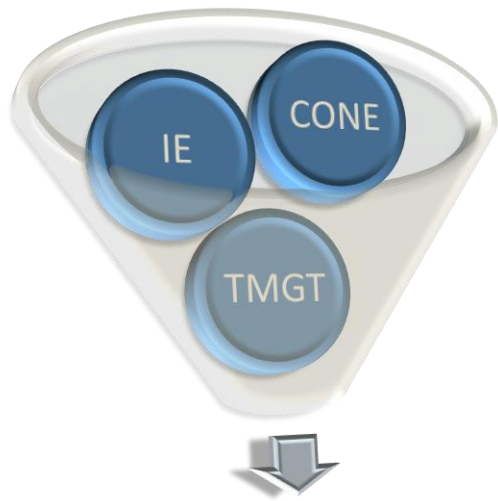
TEXAS

MORE ENGINEERING & TECHNOLOGY UNDERGRADUATE INFORMATION

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Community College Transfer Agreement

www.TAMUC.edu/IET



Job Growth in Engineering & Technology!

NATIONALLY



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 (thechb.state.tx.us).

Companies and alumni partner with A&M-Commerce engineering & technology mentoring, guest speaking, contributions, and much more!

TEXAS A&M UNIVERSITY-COMMERCE BUILDING INFORMATION MODELING SYMPOSIUM

TEXAS A&M UNIVERSITY-COMMERCE ENGINEERING DAY TECHNICAL SESSION & GRADUATING SENIOR LUNCHEON

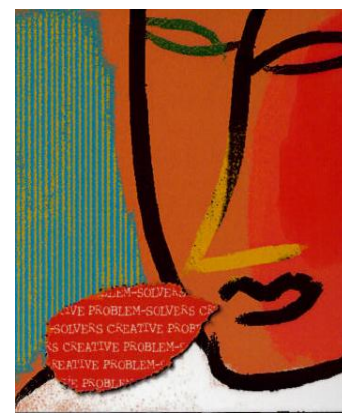
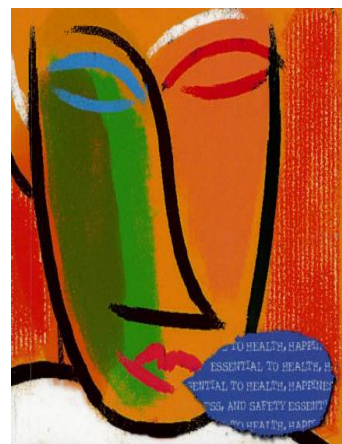
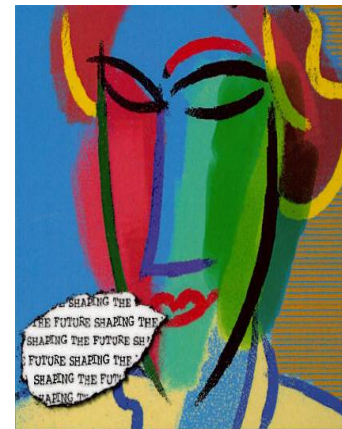
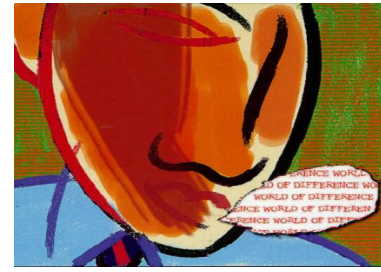
Texas A&M University-Commerce

ENGINEERING & TECHNOLOGY



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.



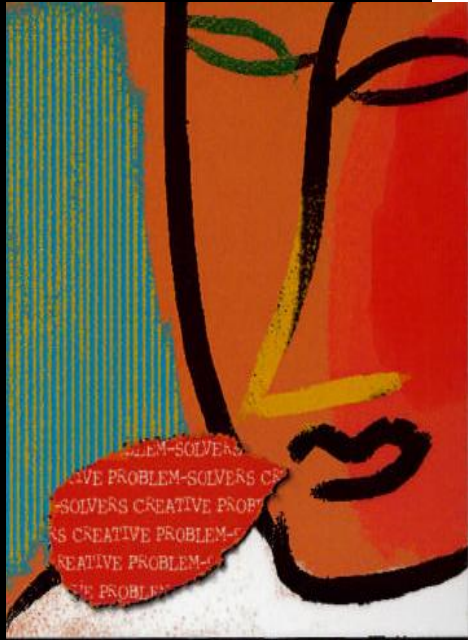
PRACTICAL INGENUITY



DESIGN CREATE INVENT

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.

ENTERPRISING SPIRIT



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.


KEEP CALM AND LET Industrial Engineers DO IT

CREATIVE, INNOVATIVE SOLUTIONS

- ❖ CREATE NEW PRODUCTS
- ❖ IMAGINE NEW GADGETS
- ❖ LAUNCH NEW COMPANIES
- ❖ TURN IDEAS INTO REALITY

Tim Cook



Apple Inc.

Tom Landry



Dallas Cowboys

Edwin Moses



General Dynamics

Mike Duke



WalMart

Nancy Currie



NASA

Louis A. Martin-Vega



Professor/Author

You!



Rex W. Tillerson



ExxonMobil

Jair Lynch



Development Partners

Abdul Aziz Al Ghurair



Mashreq Bank

Kathy Kilmer



Walt Disney World

Jean Venables

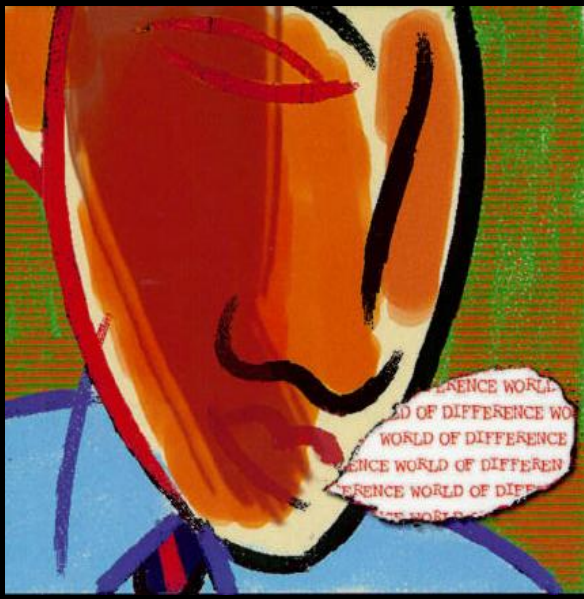


Institution of Civil Engineers

Carlos Slim Helú



World's Wealthiest 2007, 2010-2013

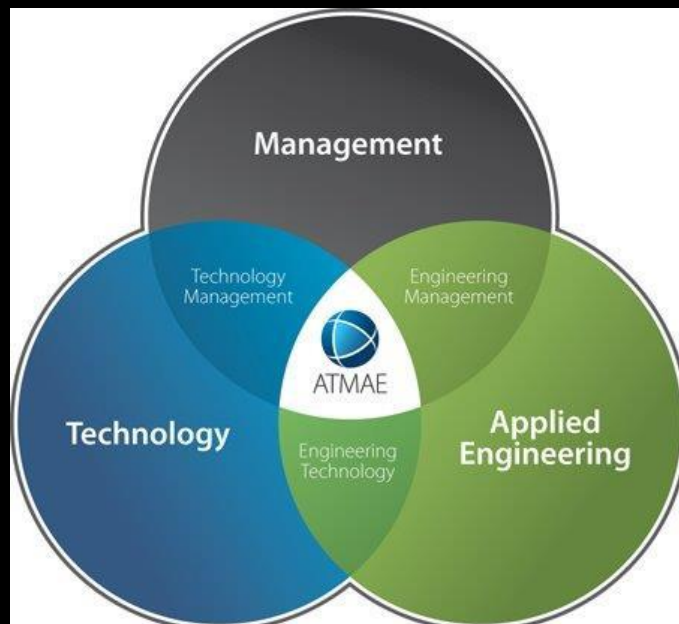


**TECHNOLOGY MANAGEMENT
OFFERS MANY LUCRATIVE
CAREER OPTIONS IN
INDUSTRIAL ENTERPRISES
AND CONSTRUCTION
MANAGEMENT.**

**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
- Its big business
- It provides millions of jobs
- It makes Texas stronger and more competitive

Texas A&M University-Commerce

ENGINEERING & TECHNOLOGY

