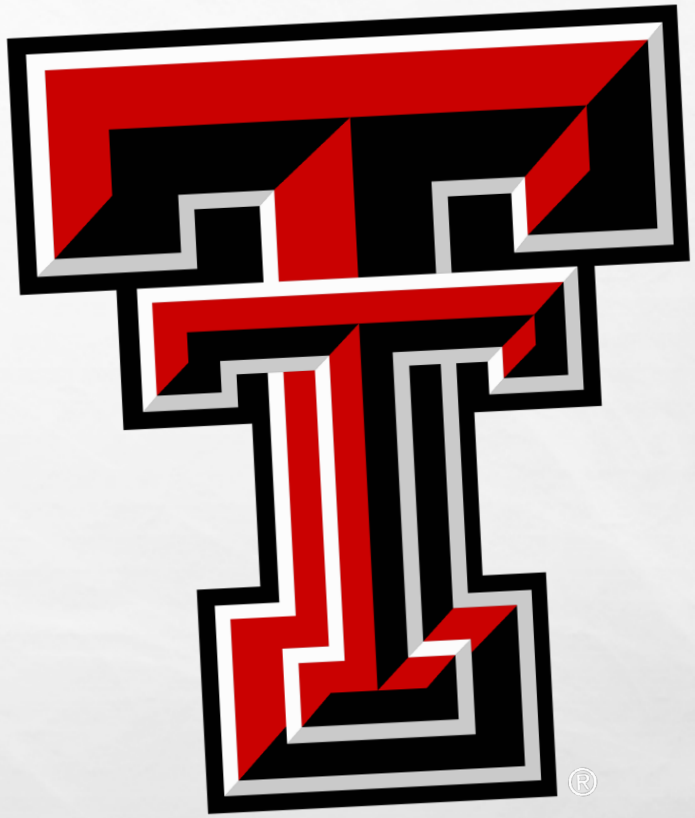
MECHANICAL ENGINEERING

TEXAS TECH UNIVERSITY



WHY MECHANICAL ENGINEERING

- ONE OF THE MOST VERSATILE ENGINEERING FIELDS
- CAREERS IN DESIGNING, ANALYZING AND MAINTAINING SYSTEMS IN A WIDE RANGE OF INDUSTRIES
- ASSIST IN FINDING SOLUTIONS TO PRESSING ISSUES IN ENERGY, ENVIRONMENT, DISEASE, ARTIFICIAL INTELLIGENCE AND DEFENSE

RESEARCH FOCUS AREAS

- Biomechanical Engineering
- Dynamics, Controls, and Robotics
- Fluid Mechanics and Aerodynamics
- Mechanics of Solids, Structures, and Materials
- Design for Manufacturing
- Microsystems and Nanomaterials
- Energy and Environment
- Solid Fuel Combustion

WHY TEXAS TECH

20:1 Student-Faculty Ratio

95% Job placement rate

$72,336 Average Annual Salary

#8 Best Value Mechanical Engineering Program

B.S., M.S., and PhD Programs accredited by ABET

Laboratories available for undergraduates and graduates

CAPSTONE DESIGN

- CULMINATION OF EDUCATION AND HAND-ON LEARNING
- WORKING ON REAL-WORLD SITUATIONS THAT SOLVE REAL-WORLD PROBLEMS
- LEARN CONCEPTS IN BIOINSPIRATION, LEAN-UP MODEL, CUSTOMER DISCOVERY, REQUIREMENT ENGINEERING AND TRANSDISCIPLINARY DESIGN
- UTILIZE DEPARTMENT RESOURCES AND INDUSTRY SUPPORT

MCDERMOTT ADVANCED MANUFACTURING AND PROTOTYPING FACILITY

FOCUSED HANDS-ON LEARNING IS ACHIEVED THROUGH THE TECHNOLOGY IN THE MCDERMOTT FACILITY FOCUSING ON:

- ADDITIVE MANUFACTURING
- 3D PRINTING ON METALS, PLASTIC AND OTHER MATERIALS
- TRADITIONAL MANUFACTURING TECHNOLOGIES
- ADVANCED CNC CAPABILITIES

UNDERGRADUATE STUDENTS PRIMARILY USE THIS LAB FOR CAPSTONE DESIGN, MANUFACTURING PROCESSES, AND RESEARCH.

UNDERGRADUATE LABORATORIES

- Thermal Fluids
- Materials Testing and Heat Testing
- McDermott Advanced Manufacturing and Prototyping Facility
- Finite Element Analysis
- Computational Fluid Dynamics
- Controls and Dynamics
- Combustion

STUDENT ORGANIZATIONS

- AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
  - JUNKYARD WARS UNITING INDUSTRY LEADERS AND STUDENTS THROUGH DESIGN AND COMPETITION.
- FORMULA SAE
  - DESIGNS, MANUFACTURES, AND RACES A FORMULA ONE STYLE RACE CAR.
- PI TAU SIGMA HONOR SOCIETY
  - COMBINING ACADEMIC ACHIEVEMENTS AND COMMUNITY INVOLVEMENT.
- RAIDER AEROSPACE SOCIETY
  - DESIGN AND BUILDS LAUNCH VEHICLES.
- AND MANY MORE

RAS
raider aerospace society

FORMULA SAE TEXAS TECH

ASME
SETTING THE STANDARD

Pi Tau Sigma
Honorary Mechanical Engineering Fraternity

ACADEMIC SUCCESS

THERE ARE MANY FREE RESOURCES AVAILABLE TO STUDENTS TO PROMOTE ACADEMIC ACHIEVEMENTS:

- SUPPLEMENTAL INSTRUCTION
- UNIVERSITY TUTORING CENTER
- RESIDENCE HALL LEARNING COMMUNITIES
- ENGINEERING OPPORTUNITIES CENTER TUTORING CENTER
- ACCESS TO PROFESSORS FOR DIRECT ASSISTANCE