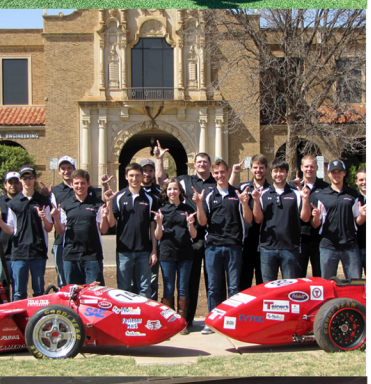
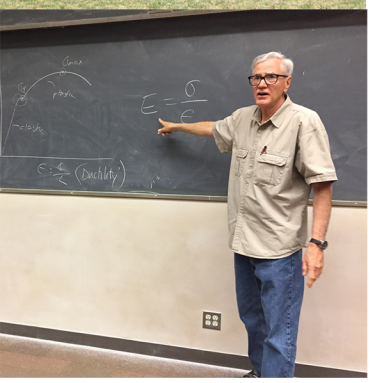
TEXAS TECH UNIVERSITY
Department *of* Mechanical Engineering™





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

WHY TEXAS TECH

20:1 Student-Faculty Ratio

95% Job Placement Rate

$72,336 Average Annual Salary

#8 Best Value Mechanical Engineering Program *collegefactual.com

B.S., M.S., & PhD Programs Accredited by ABET
129 Hours Minimum for B.S.

Laboratories available for Undergraduates and Graduates

CONTACT

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CAPSTONE DESIGN

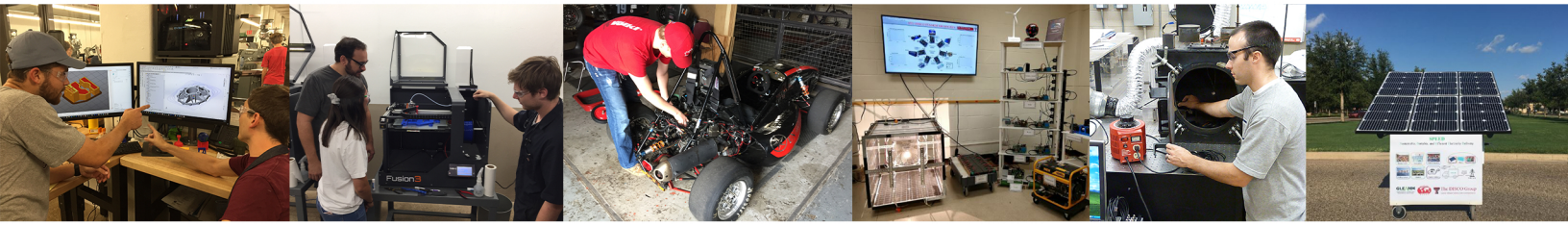
Carried out during senior year, the capstone design project is a culmination of student's education and skills. Focused on innovation, students put their engineering skills to test by working on a novel design. During the year, they learn about new concepts in bioinspiration, lean startup model, customer discovery, requirement engineering, and transdisciplinary design. Students utilize departmental resources and often industrial support to design functional complete systems based on customer needs.

McDERMOTT ADVANCED MANUFACUTURING 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.



RESOURCES

Undergraduate Labortories

- 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

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

ASME SETTING THE STANDARD

RAS raider aerospace society

FORMULA SAE TEXAS TECH

Pi Tau Sigma Honorary Mechanical Engineering Fraternity