

MECHANICAL ENGINEERING TEXAS TECH UNIVERSITY

WHY MECHANICAL ENGINEERING

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- 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

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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

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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., (ABET accredited) M.S., and PhD Programs

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

(Ac.)

Thermal Fluids

Materials Testing and Heat Testing

McDermott Advanced Manufacturing and Prototyping Facility

Finite Element Analysis

Computational Fluid Dynamics

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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.

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• AND MANY MORE





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ACADEMIC SUCCESS

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

- SUPPLEMENTAL INSTRUCTION
- UNIVERSITY TUTORING CENTER

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

