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., (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
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
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