SCHOOL OF AEROSPACE AND MECHANICAL ENGINEERING

Whether students are interested in the broad field of mechanical engineering or the specialized discipline of aerospace engineering, the School of Aerospace and Mechanical Engineering prepares them to tackle today's most complex challenges across a wide range of industries and environments. Our undergraduate students benefit from an exceptional educational experience that combines innovative instruction from world-class faculty with hands-on learning opportunities in dedicated laboratories. Beyond the classroom, students participate in competition teams and research projects that strengthen both their technical expertise and professional skills while fostering meaningful connections and lifelong friendships.

BY THE NUMBERS

1000+
Undergraduate Students in AME

31
Full-Time Faculty in AME

$82,184
Average Starting Salary for OU AME Graduates

MAJORS

Aerospace Engineering

Mechanical Engineering

Mechanical Engineering: Pre-Med

Accelerated (5-year) Dual Degree Programs

B.S./M.S. Aerospace Engineering

B.S./M.S. Mechanical Engineering

The OU Design/Build/Fly (DBF) team showcases its meticulously crafted aircraft after achieving a top-25 finish, placing 22nd at the 29th Annual AIAA Design/Build/Fly Competition.

"The School of Aerospace and Mechanical Engineering not only provides an excellent education but also fosters a strong sense of community. The professors and staff are highly approachable, and their dedication to students' success is evident. Additionally, the student body has created a close-knit, family-like environment."

– Brooke Rogachuk, Aerospace Engineering
Class of 2026, Goldwater and Astronaut Scholar

CONTACT US

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goengineering@ou.edu

Terms to Know

Major—Primary area of study
Minor—Complimentary area of specialization
B.S.—Bachelor of Science
M.S.—Master of Science
M.B.A.—Master of Business Administration
M.E.S.—Master of Environmental Science

GALLOGLY COLLEGE OF ENGINEERING

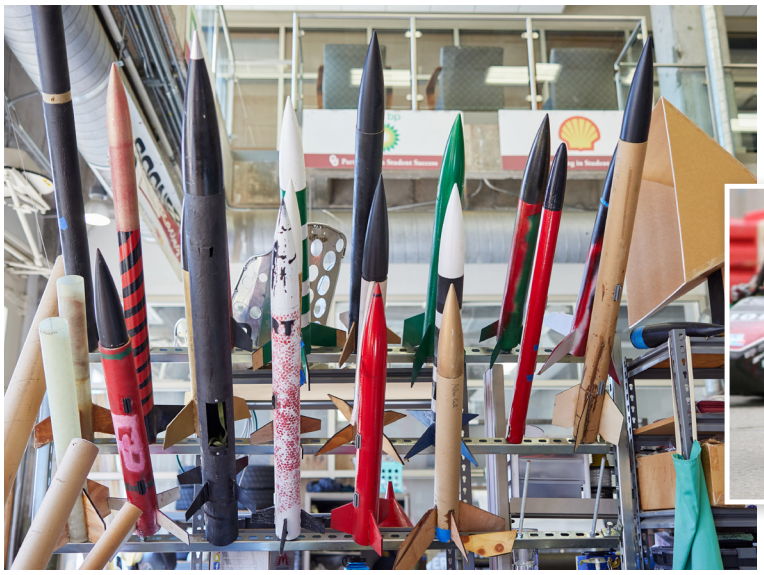
SCHOOL OF AEROSPACE AND MECHANICAL ENGINEERING

THINGS TO KNOW

1 Mechanical Engineering is one of the broadest fields in engineering, with mechanical engineers employed across nearly every industry. The profession offers the flexibility to pursue a wide variety of interests and career paths. Aerospace engineers are responsible for the design, development, testing, and production of aircraft, including general aviation planes, commercial airliners, high-performance military aircraft, and drones, as well as spacecraft for exploration and discovery.

2 Undergraduate students engage in experiential and hands-on learning throughout the curriculum. Students develop skills in computer-aided design, experimental data collection, computer programming, finite element analysis, project management, and a variety of other communications and analysis methods. This includes a semester-long industry or community-sponsored capstone project that ties together analysis, design, manufacturing and testing skills for senior students. Capstone industry partners have included Boeing, Tinker Air Force Base, the Federal Aviation Administration, Textron Aviation, Hitachi, the United States Postal Service, and Schlumberger.

3 Undergraduate students work on research with faculty for course credit. Research topics include robotics, combustion, 3D printing, composites, electrochemical systems, HVAC systems, sustainable energy and biomechanics.



A collection of high-powered rockets designed and built by members of the OU Boomer Rocket Team (BRT). The team's achievements include a third-place finish at the Argonia Cup, where their rocket *Danger Noodle* reached an altitude of more than 12,000 feet and nearly Mach 1.9.

SELECT COURSES

Materials, Design and Manufacturing Processes
Aerodynamics/Aerospace Systems Design
Fluid Mechanics/Design Practicum
Propulsion/Heat Transfer
Space Sciences and Aerodynamics

AME STUDENT ORGANIZATIONS

American Society of Mechanical Engineers (ASME)

American Institute of Aeronautics and Astronautics (AIAA)

+ over 60 engineering student organizations

CAREER PATHS

Boeing Oklahoma City, OK
Structural Design Engineer

Exxon Mobil Midland, TX
Facilities Engineer

Northrop Grumman Gilbert, AZ
Control Engineer

Rolls Royce Indianapolis, IN
Manufacturing Engineer

Valero Corpus Christi, TX
Equipment Engineer

Sooner Racing Team (SRT) competing at the 2025 SAE International Formula SAE event in Jackson, Michigan. SRT finished 4th in acceleration.