

College of Engineering

MECHANICAL ENGINEERING

Making Society Move

If it moves, mechanical engineers can design, build and repair it. They apply math skills, computational tools and the laws of physics to a variety of high-tech fields, such as space vehicles, defense systems, renewable energy and biomedical devices.



DESTINATION OF CHOICE

The UA is a top research university boasting strong industry ties, with research and development expenditures in the top 5% of public universities. Flexible academic programs, high-profile investigation, commercial design projects and club competitions are integral to the student experience.

REWARDING PROSPECT

Mechanical engineering is the No. 5 highest-paying college major, according to CNBC, and the median salary is over \$104,000. Graduates' knowledge is needed in virtually every industry, including automotive, transportation, construction, utilities, defense, chemical and medical.



THE UNIVERSITY
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COLLEGE OF ENGINEERING

Aerospace & Mechanical Engineering

EXCELLENCE IN EDUCATION & RESEARCH

Mechanical engineering students work with renowned faculty to conduct interdisciplinary research across a wide array of challenges, with a focus on:

- Solid and fluid mechanics
- Computational mechanics
- Nanotechnology
- Dynamics and controls
- Biomechanics
- Renewable energy
- Thermal sciences
- Mechanical design



“ The problem-solving that you learn in engineering can’t be replicated really anywhere else. The core of the most important things in my career has been what I learned in engineering. ”

Alum Dave Hutchens, *president and CEO of Fortis Inc.*

LEARNING FROM EXPERIENCE

Outside the classroom, students participate in a variety of activities to build leadership skills and prepare for the workforce.

- Paid internships with longtime industry partners
- Formal networking opportunities with faculty, alumni and industry
- Senior design projects with experienced industry mentors
- Research opportunities and field experience
- Student chapters of professional organizations
- Student clubs, such as the American Society of Mechanical Engineers, and national competitions

A PLACE FOR EVERYONE

Various engineering clubs – American Indian Science & Engineering Society; National Society of Black Engineers; Out in Science, Technology, Engineering, and Mathematics; Society of Hispanic Professional Engineers, and Society of Women Engineers, for example – help ensure all students feel welcome and connected.

“ At the U of A, a mechanical engineering education provides students the skills to design and build innovative systems, ranging from life-saving biomedical devices to advanced robotic & energy solutions. This program leverages human creativity, virtual reality tools and AI to ensure a significant impact on the quality of human life. ”

Eniko Enikov, *professor*



Recruiting and Admissions

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