MECHANICAL ENGINEERING

OC.EDU

OKLAHOMA CHRISTIAN UNIVERSITY

ENGINEERING WITH PURPOSE

Oklahoma Christian University's ABET-accredited Mechanical Engineering program integrates faith with technical fluency in physics and innovation. Taught by faculty with industry experience, you will solve real-world problems through extensive hands-on lab work, graduating prepared for professional practice or graduate school.

GRADUATES OF THE MECHANICAL ENGINEERING PROGRAM

- Develop technical and professional excellence in team and individual settings.
- Exhibit continuous learning, holistic thinking and effective communication.
- Gain hands-on experience through projects and design challenges.
- Lead with integrity, professionalism and strong ethical values.
- Apply faith to engineering and innovation.
- Use their knowledge and skills to serve others and improve lives.

WHERE CAN THIS DEGREE TAKE YOU?

AEROSPACE

- Aerospace Engineer
- Flight Systems Engineer
- Propulsion Engineer
- Aircraft Design Engineer

ENERGY & INFRASTRUCTURE

- Energy Systems Engineer
- HVAC Engineer
- Renewable Energy Engineer
- Mechanical Design Engineer

PRODUCT DESIGN & MANUFACTURING

- Product Development Engineer
- Manufacturing Engineer
- Design Engineer
- Quality Engineer

RESEARCH & INNOVATION

- Research Engineer
- Prototype Development Engineer
- Engineering Consultant
- Project Engineer

ROBOTICS & AUTOMATION

- Robotics Engineer
- Automation Engineer
- Mechatronics Engineer
- Systems Integration Engineer

**SOME CAREERS LISTED MAY REQUIRE ADDITIONAL PROFESSIONAL EXPERIENCE AND/OR EDUCATION.*



$102,320
NATIONAL MEDIAN ANNUAL SALARY FOR MECHANICAL ENGINEERS.

18,000+
JOB OPENINGS PER YEAR OVER THE NEXT DECADE.

9%
PROJECTED JOB GROWTH RATE THROUGH 2034.

SOURCE: U.S. BUREAU OF LABOR STATISTICS

ADMISSIONS@OC.EDU | 405.425.5050

KEY DIFFERENCES IN OUR ENGINEERING PROGRAMS

Regardless of which of our Engineering programs you choose (Mechanical, Electrical or Computer), faith will be seamlessly integrated into every academic discipline. The primary differences are your interests and what you will learn to design and create.

	MECHANICAL ENGINEERING	ELECTRICAL ENGINEERING	COMPUTER ENGINEERING
DESIGN	machines and mechanical systems	electrical systems and electronics	computer hardware and smart devices
FOR THINGS LIKE	airplanes, structures, 3D printing, manufacturing, energy systems and product design	power systems, circuits, communications and controls	embedded systems, hardware, software and AI technologies
IF YOU	enjoy physics, mechanics and materials science	are interested in advanced math, electromagnetics and electronics	enjoy technology, computer science, data structures, and discrete math

CLASSES, PROJECTS & OPPORTUNITIES

MECHANICAL ENGINEERING COURSES

- Engineering Materials
- Fluid Mechanics
- Manufacturing Processes
- Dynamic Systems and Controls
- Machine Design
- Heat Transfer
- Finite Element Analysis
- Systems Design I, II and III

UNIQUE PROJECTS & OPPORTUNITIES

- Baja SAE: Design and build an off-road vehicle from scratch.
- SAE Aero: Design and build a fully functional radio-controlled aircraft from scratch.
- Air Force Research Lab (AFRL) Aerospace Propulsion Outreach Program (APOP): Design, build and test a modification on a small gas turbine engine. (Each year is a different design challenge.)
- Humanitarian UAV Design: Design specialized drones for remote medical supply delivery and infrastructure mapping in underserved areas.
- Interdisciplinary Projects: Collaborate on larger multidisciplinary teams for AI, robotics and semiconductor manufacturing challenges sponsored by local industry partners.
- Toastmasters: Practice public speaking through a learn-by-doing format. Deliver spontaneous, impromptu short speeches to practice thinking on your feet and implementing feedback.

SCAN TO LEARN MORE

WHY OC? WHY OKC?

At OC, Mechanical Engineering students are provided a Christ-centered education, hands-on learning and personal faculty mentorship. Our campus is located just 10 minutes from the heart of Oklahoma City, which provides access to internships, industry partnerships and career opportunities in aerospace, energy, manufacturing, technology and more.

ABET
ACCREDITED MECHANICAL ENGINEERING PROGRAM

10 MINUTES
FROM DOWNTOWN OKLAHOMA CITY.

$101,850
AVERAGE OKLAHOMA MECHANICAL ENGINEER SALARY.[1]

$64,149
AVERAGE ENTRY-LEVEL STARTING SALARY FOR MECHANICAL ENGINEERS IN OKLAHOMA CITY.[2]

*SOURCES: [1] O*NET ONLINE*
[2] ZIPRECRUITER

WHERE SOME OF OUR ALUMNI ARE WORKING

- Tinker Air Force Base
- Northrop Grumman
- OG&E
- Ford Audio and Video
- The Boeing Company
- Autoquip
- Kratos Defense and Security Solutions
- W&W | AFCO Steel
- ASRC Federal
- Kimley Horn
- Kimray
- KBR
- Nortek
- Textron
- King Aerospace
- JASCO
- Garmin
- Oklahoma Christian University

DR. KEVIN PLUMLEE
ASSOCIATE PROFESSOR
OF MECHANICAL
ENGINEERING
DEPARTMENT CHAIR