OKLAHOMA AEROSPACE

CAREER PATHWAYS FOR OKLAHOMA STUDENTS

OKLAHOMA
Aerospace &
Aeronautics

Oklahoma is continuing to build on its strong aviation history by working to ensure that students are equipped to enter Oklahoma's ever-growing aviation and aerospace industry. High schools across the state are partnering with airports, business and industry leaders, and post-secondary institutions to build robust aerospace STEM programs that allow students to acquire the skills necessary to enter an industry career or gain additional education from Oklahoma's Higher Education or CareerTech institutions. This will help ensure a bright future for Oklahoma's youth and build the workforce necessary to continue to propel the state's aerospace industry forward.

It is our hope that this resource provides students and educators with the information needed to find a pathway to a future in the aerospace industry. It is this partnership of students, educators, and industry working together in the development of educational pathways that will lead students to rewarding careers and will support the continued growth of the industry.

Aviators, Airlines, and Astronauts

Most historians agree that Oklahoma's first powered flight took place on March 18, 1910, near Capitol Hill High School in south Oklahoma City. On that spring day, traveling show pilot Charles Willard flew an exhibition with a Curtiss Pusher airplane, attaining an altitude of three hundred to four hundred feet at a speed of thirty miles per hour. After that, barnstormers, air shows, and fundraisers brought aviation to small and large Oklahoma towns alike.

From those early days, Oklahoma's contributions to aviation history continued to grow. World War I was the first conflict to have significant air power as part of the fighting. In 1915 the U.S. Army at Fort Sill near Lawton, Oklahoma, received a squadron of Curtiss biplanes for pilot training. As part of their work, pilots flew to various grass airstrips, one of which was located near the Oklahoma Capitol in Oklahoma City.

In postwar Oklahoma the returning veterans, with their recently acquired flying skills, created a new industry, "aviation." Air transport flourished in the 1920s. "Airmail" service arrived in Tulsa and Oklahoma City, providing solid support for the airports and putting the cities on the map. In 1928 Paul and Tom Braniff began an airline with service between Tulsa and Oklahoma City, later expanding across the country and eventually to South America. About the same time, Transcontinental Air Transport (TAT) established a stop at Waynoka, Oklahoma, as part of their route across the nation. TAT combined air and rail to move people from coast to coast in forty-eight hours.

WILL ROGERS & WILEY POST

Aviation manufacturing also developed after the war. Clyde Cessna, working out of Enid, Oklahoma, had tested his aircraft designs at the Great Salt Plains northwest of Enid. In 1928 William G. Skelly opened Spartan Aircraft Company in Tulsa. The pace of development affected the petroleum industry as well. Phillips Petroleum and Skelly Oil began producing high-grade aviation fuel in the state.

Beginning in the 1920s an increasing number of individuals became airplane pilots. In 1928 Tulsa's Spartan Aircraft began operating the Spartan School of Aeronautics (now Spartan College of Aeronautics and Technology) in Tulsa to provide pilot instruction. The Oklahoma Aeronautics Commission, established in 1931, began issuing pilot's licenses that year. Also that year Oklahoma pilot Wiley Post flew with his navigator, Harold Gatty, around the world in a record eight days and sixteen hours. In 1932 Oklahoma pilots Thomas Cox Allen and James Herman Banning became the first African Americans to complete a transcontinental flight. Aviation could be dangerous and sometimes brought tragedy. On August 15, 1935, Wiley Post and Oklahoma's patron saint of aviation, Will Rogers, were killed in an airplane crash near Point Barrow, Alaska.

WALLY FUNK

After World War II many of the military airfields in the state became city- or state-owned facilities. The army's airfield at the Oklahoma City airport became the Civil Aeronautics Center and is now the Federal Aviation Administration's Mike Monroney Aeronautical Center.

Many people do not realize Oklahoma's amazing contributions to aerospace. Astronauts Gordon Cooper, Thomas Stafford, Fred Haise, Stuart Roosa, Owen Garriott, William Pogue, Shannon Lucid, and John Herrington all played a crucial role in space exploration. Geraldine "Jerri" Cobb became the first female astronaut trainee in 1960 and passed all three phases of testing but was unable to go into space because NASA canceled the female astronaut testing program in 1963.

In 1960, Wally Funk became the first female flight instructor at Fort Sill in Lawton, Oklahoma. Sixty-one years later, in July of 2021, 82-year-old Funk went into space in Blue Origin's New Shepherd Rocket, becoming the oldest person to fly to space.

Oklahoma's storied aviation history is the result of the work and determination of the many amazing Oklahomans who have not been afraid to reach for the skies. That same spirit continues today. ■

THOMAS STAFFORD

PILOT

OKLAHOMA STATE UNIVERSITY

SOUTHEASTERN OKLAHOMA STATE UNIVERSITY

SPARTAN COLLEGE OF AERONAUTICS & TECHNOLOGY

TULSA COMMUNITY COLLEGE

THE UNIVERSITY OF OKLAHOMA

AVIATION MANAGEMENT

EMBRY RIDDLE AERONAUTICAL UNIVERSITY

OKLAHOMA STATE UNIVERSITY

ROSE STATE COLLEGE

SOUTHEASTERN OKLAHOMA STATE UNIVERSITY

THE UNIVERSITY OF OKLAHOMA

AEROSPACE SECURITY / CYBERSECURITY

CAMERON UNIVERSITY

MID-AMERICA CHRISTIAN UNIVERSITY

NORTHEASTERN STATE UNIVERSITY

OKLAHOMA BAPTIST UNIVERSITY *

OKLAHOMA CHRISTIAN UNIVERSITY

OKLAHOMA CITY COMMUNITY COLLEGE

OKLAHOMA STATE UNIVERSITY*

OKLAHOMA STATE UNIVERSITY INSTITUTE OF TECHNOLOGY

OKLAHOMA WESLEYAN UNIVERSITY

ROGERS STATE UNIVERSITY

ROSE STATE COLLEGE*

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY

THE UNIVERSITY OF OKLAHOMA*

THE UNIVERSITY OF OKLAHOMA POLYTECHNIC INSTITUTE--TULSA*

THE UNIVERSITY OF TULSA*

TULSA COMMUNITY COLLEGE*

WESTERN OKLAHOMA STATE COLLEGE

ENGINEER

CAMERON UNIVERSITY

EMBRY RIDDLE AERONAUTICAL UNIVERSITY

NORTHEASTERN OKLAHOMA A&M

NORTHEASTERN STATE UNIVERSITY

NORTHERN OKLAHOMA COLLEGE

OKLAHOMA BAPTIST UNIVERSITY

OKLAHOMA CHRISTIAN UNIVERSITY

OKLAHOMA CITY COMMUNITY COLLEGE

OKLAHOMA STATE UNIVERSITY

ORAL ROBERTS UNIVERSITY

ROGERS STATE UNIVERSITY

ROSE STATE COLLEGE

SEMINOLE STATE COLLEGE

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY

THE UNIVERSITY OF CENTRAL OKLAHOMA

THE UNIVERSITY OF OKLAHOMA

THE UNIVERSITY OF TULSA

TULSA COMMUNITY COLLEGE

WESTERN OKLAHOMA STATE COLLEGE

MAINTENANCE TECHNICIAN PROGRAM

CANADIAN VALLEY TECHNOLOGY CENTER*

FRANCIS TUTTLE TECHNOLOGY CENTER

GORDON COOPER TECHNOLOGY CENTER*

METRO TECHNOLOGY CENTER*

MID-DEL TECHNOLOGY CENTER

MOORE NORMAN TECHNOLOGY CENTER*

RED RIVER TECHNOLOGY CENTER

ROSE STATE COLLEGE

SOUTHERN TECHNOLOGY CENTER* (PENDING FAA APPROVAL)

SOUTHWEST TECHNOLOGY CENTER*

SPARTAN COLLEGE OF AERONAUTICS & TECHNOLOGY*

TULSA TECHNOLOGY CENTER*

*FULL A&P

AIR TRAFFIC CONTROL / MANAGEMENT

TULSA COMMUNITY COLLEGE

THE UNIVERSITY OF OKLAHOMA

UAS

CAMERON UNIVERSITY

OKLAHOMA CITY COMMUNITY COLLEGE

OKLAHOMA STATE UNIVERSITY

ROGERS STATE UNIVERSITY

ROSE STATE COLLEGE

SOUTHEASTERN OKLAHOMA STATE UNIVERSITY

* DENOTES PROGRAMS SPECIFIC TO AEROSPACE CYBERSECURITY

"This program has given me the perfect opportunity to get immersed in aviation! As students we are constantly getting opportunities to explore the career pathways that we are interested in."

Alexis Hannah
Oklahoma Aviation Academy, Norman

Oklahoma students who choose to enter an aerospace or aviation pathway have the opportunity to pursue high-demand, high-wage careers that will not only be of benefit to them but will ensure the future of Oklahoma's aerospace industry. Listed below are examples of the many career options available to students and the average Oklahoma salary for each position. ■

Customer Service Representative	$39,580
Aircraft Structure, Surface, Rigging & System Assembler	$48,860
Welder, Cutter, Solderer & Brazer	$49,530
Machinist	$51,380
Aircraft Mechanic & Service Technician	$74,920
Avionics Technician	$59,930
Flight Attendant	$70,980
Electrical & Electronic Engineering Technologist	$75,350
Accountant & Auditor	$81,740
Computer Programmer	$112,410
General & Operations Manager	$103,270
Aerospace Engineer	$107,400
Airline Pilot	$108,940
Air Traffic Controller	$136,790

AOPA "You Can Fly" High School Aviation Curriculum

Across Oklahoma, schools are recognizing the importance of offering high-quality STEM opportunities for students, and with the aviation industry facing a nationwide shortage of pilots, mechanics, and skilled aviation professionals, there has never been a better time to introduce students to aerospace and aviation. To that end, the Aircraft Owners and Pilots Association (AOPA) offers four-year pathways of coursework designed to prepare students for post-secondary education programs and industry careers. "The curriculum, a collection of practical, rigorous, and engaging activities, is offered free to schools and provides students the opportunity to learn the basic foundational principles of aviation and aerospace. Schools may choose to offer the Pilot/General Aviation Pathway and/or the UAS/Drone Pathway which allows students to work towards their FAA private pilot's license and/or Part 107 UAS certification. Each pathway provides schools with four years of quality curriculum for students enrolled in grades 9-12.

Both pathways offer students the opportunities to be introduced to the various careers available in the aviation and aerospace industry.

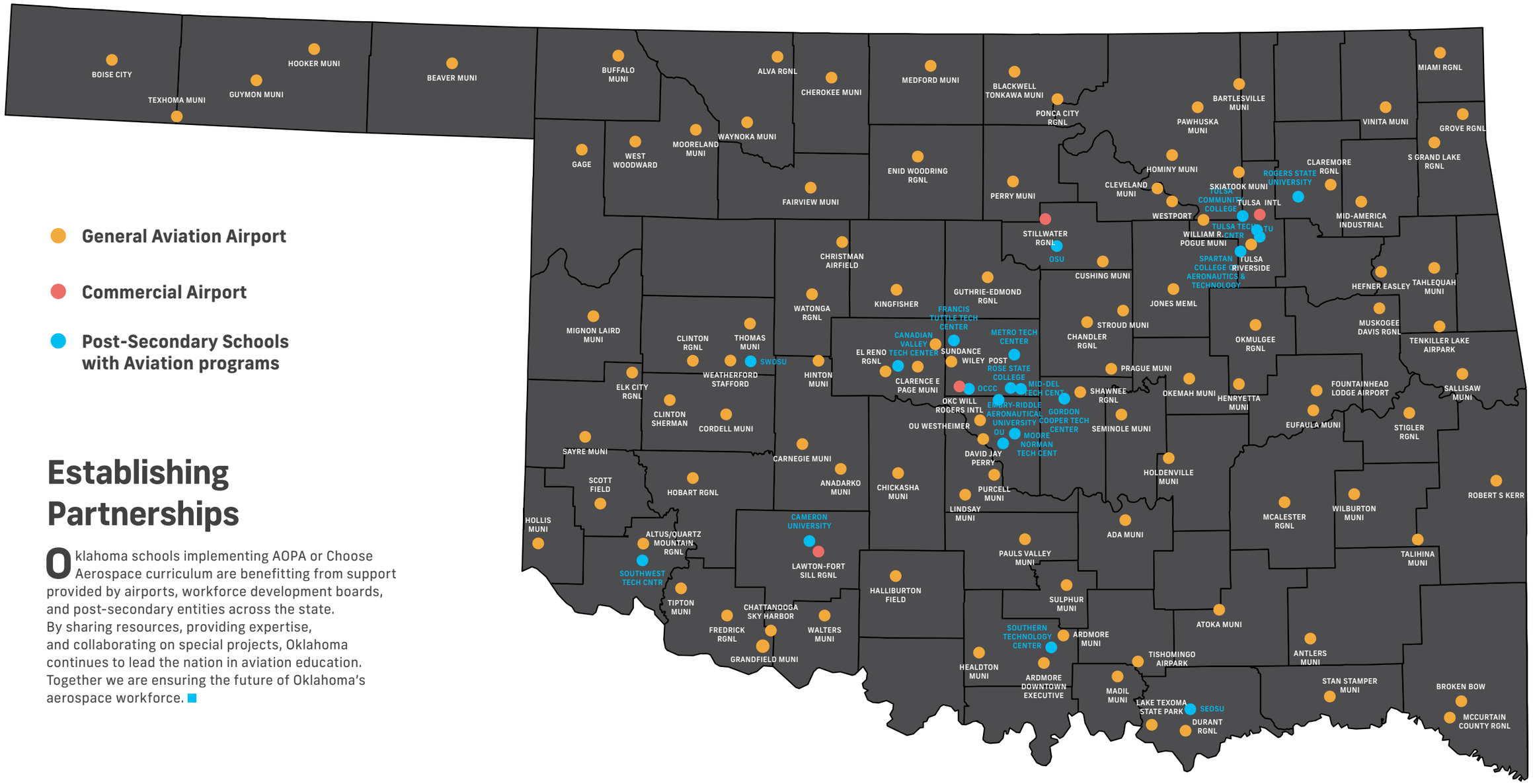
For more information visit **youcanfly.aopa.org/high-school**. ■

"Choose Aerospace" High School Maintenance Curriculum

"Choose Aerospace" is a computer-based aircraft maintenance curriculum designed for high school juniors and seniors. The curriculum aligns with Federal Aviation Administration (FAA) Mechanic Airman Certification Standards (ACS) and covers the knowledge elements tested in the FAA mechanic general written knowledge exam. The modular design of the content facilitates a flexible approach which allows for a wide range of schedule and program needs.
Choose Aerospace utilizes a hybrid approach to learning, combining traditional delivery methods with innovative e-learning methods. The content is computer-based but no special hardware or software is required. There is a cost to schools.

For more information, visit **chooseaerospace.org/curriculum**. ■

The Oklahoma Department of Aerospace and Aeronautics is dedicated to supporting the growth of aviation education by working with schools in the development of both the AOPA "You Can Fly" program and the Choose Aerospace program. As of the 2024-2025 academic year, Oklahoma leads the nation with 117 schools implementing the AOPA and 7 schools implementing the Choose Aerospace curriculum. These schools range in size from the very smallest to some of the largest and represent all corners of Oklahoma. These curriculum offerings make it easy for schools to partner with area airports and regional industries to further build high quality aviation STEM programs. ■



- General Aviation Airport
- Commercial Airport
- Post-Secondary Schools with Aviation programs

Establishing Partnerships

Oklahoma schools implementing AOPA or Choose Aerospace curriculum are benefitting from support provided by airports, workforce development boards, and post-secondary entities across the state. By sharing resources, providing expertise, and collaborating on special projects, Oklahoma continues to lead the nation in aviation education. Together we are ensuring the future of Oklahoma's aerospace workforce. ■

"I first joined Tango Flight because of my interest in airplane mechanics. I thought it would be a great experience and would teach me good skills for the future. Tango Flight exceeded all expectations. I enjoy the very hands on class, I'm not lying when I say I've built a plane! It's given me experiences most people like me would never have the means of experiencing. Tango Flight is a revolutionary program that I'm proud to be a part of."

Melissa Bollenbach
Tango Flight

CAREER TECH FULL A&P

The Oklahoma Department of Career and Technology Education (ODCTE) offers students the opportunity to gain work-ready skills for high demand, high wage aviation maintenance careers at technology centers across the state. Currently, five Oklahoma technology centers offer Airframe and Power Plant (A&P) programs which have been designed to prepare students to test for A&P ratings with the Federal Aviation Administration (FAA). Two additional technology centers are working to build A&P Programs that will allow Oklahoma to meet its growing workforce needs in aircraft maintenance. |

Canadian Valley Technology Center
Gordon Cooper Technology Center
Metro Technology Center
Moore - Norman Technology Center
Southwest Technology Center
Tulsa Technology Center
Southern Technology Center*

CAREER TECH SPECIALIZED PROGRAMS

Other Oklahoma Career and Technology Education Centers offer specialized programs such as aircraft structural technologies-sheet metal, aircraft composites, aircraft electrical systems, and avionics. These programs have been designed to arm students with the skills needed to meet specific workforce demands. The Oklahoma Department of Career and Technology Education (ODCTE) works regularly with military entities and industries across the state to not only recognize those needs but to develop certification programs that will offer students a viable pathway to industry jobs. |

Francis Tuttle Technology Center
Mid-Del Technology Center
Metro Technology Center
Red River Technology Center

CAMERON UNIVERSITY

Whether you're interested in obtaining a Bachelor's degree in Technology specializing in Cybersecurity, an Associate's degree in Engineering, or even a micro-credential in drone piloting and videography, Cameron University is equipping it's graduates with highly specialized and technical skills that the aerospace industry is seeking in its workforce. **cameron.edu** |

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

Embry-Riddle is the world's pre-eminent university for aviation and aerospace education. Whether you're interested in Applied Science; Aviation; Business; Computers & Technology; Engineering; Space; or Security, Intelligence and Safety, Embry-Riddle has a major for you. Our Oklahoma City site, located near Tinker Air Force Base, offers associate, bachelor's and master's degrees, as well as professional certifications that will help you achieve a higher position in your current company or make you an attractive job candidate in a new business or field. A degree from Embry-Riddle Worldwide will give you the skills you need for success in many of Oklahoma's top industries. **erau.edu** |

MID-AMERICA CHRISTIAN UNIVERSITY

In this increasingly digital world, qualified cybersecurity professionals are in high demand. The Bureau of Labor Statistics estimates that employment of information security analysts will grow 33 percent in the next 10 years, much faster than the average for all occupations. With a Cybersecurity Bachelor's degree from Mid-America Christian University (MACU), you can play a key role in keeping individuals and businesses safe. With MACU's accredited Cybersecurity Degree, you'll gain knowledge about this growing threat and learn how to use the latest tools to address it. Our cybersecurity program provides the skills you need for success as an entry-level information systems and cybersecurity professional. **macu.edu** |

NORTHEASTERN OKLAHOMA A&M

Welcome to NEO A&M College! The Associate in Science Pre-Engineering Degree Program is designed to prepare students for transfer to a four-year college or university in a pre-engineering program or related field of study. The curriculum includes general education courses, mathematics courses, science courses and Pre-Engineering courses. Faculty advisors work closely with students to design a plan of study that meets their educational and career goals**. neo.edu** |

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ENGINEER · MAINTENANCE TECHNICIAN PROGRAM · AEROSPACE/CYBER SECURITY

OKLAHOMA'S AEROSPACE INDUSTRY SUPPORTS MORE THAN 120,000 JOBS WITH AN AVERAGE ANNUAL WAGE OF $73,300

NORTHEASTERN STATE UNIVERSITY

Mechanical engineering is the study of objects and systems in motion. It is one of the most diverse and versatile engineering fields and touches virtually every aspect of modern life. NSU's Bachelor of Science in Mechanical Engineering program is helping to support the demand for engineers in Oklahoma's workforce. NSU's bachelor's degree in Cybersecurity combines theory and practical application to prepare students for employment in local, state, and federal agencies as well as private positions in cyber security analysis, incident response, and compliance risk analysis. **nsuok.edu |**

NORTHERN OKLAHOMA COLLEGE

Pre-Engineering students at NOC need a strong interest in STEM—Science, Technology, Engineering and Mathematics. Engineers work as part of a team, pay attention to detail, have a strong analytical mind and good communication skills. This Pre-Engineering degree option is designed to transfer into all disciplines of engineering. **noc.edu |**

OKLAHOMA BAPTIST UNIVERSITY

In 2023 OBU celebrated the launch of three new engineering programs--Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering and Bachelor of Science in System Engineering. Each of the degree programs will be taught in a context that relates to the aerospace industry, but will prepare students for entry into any industry requiring these engineering degrees. OBU's cybersecurity degree program has a unique partnership with the university's engineering program incorporating components of the aerospace industry. This partnership will provide an avenue to focus on security of cyber physical systems (CPS). It offers a network of interacting elements recognized through such devices as automatic avionics or autonomous/ unmanned drones. **okbu.edu |**

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OKLAHOMA CHRISTIAN COLLEGE

With modern and diverse curriculum concentrations, Oklahoma Christian University's Engineering program will enable you to customize your degree and college experience. Opportunities to study, build, create, invent, analyze, enhance, impact, grow, dream and excel await those studying engineering, computer science or math. Graduates from OC's College of Engineering are well-paid and highly sought after by many industry leaders. Receive a rigorous academic foundation in engineering principles, while also developing your character and leadership skills. **oc.edu |**

OKLAHOMA CITY COMMUNITY COLLEGE

OCCC remains committed to supporting Oklahoma's aerospace workforce demands. Three programs are especially relevant in the aerospace sector. Engineering students learn about fundamental engineering principles and how they are applied to real life problems. At Oklahoma City Community College, the Engineering Program is designed especially for students who want to complete a bachelor's or advanced degree in any of the various branches of engineering. The Unmanned Aerial Systems (UAS) Certificate will equip students with the skillset required to operate aerial vehicles (drones) along with other types of unmanned vehicles. An associate's degree in Cyber Information Security can lead to careers in national security as well as protecting individuals and businesses. **occc.edu |**

OKLAHOMA STATE UNIVERSITY

Oklahoma State University's Aviation and Space program prepares students for a range of careers within the aerospace industry. The Ray and Linda Booker Flight Center enhances the student experience and OSU's work within the aviation industry, positioning OSU as a premier destination for aviation education. OAIRE, Oklahoma State's Aerospace Institute for Research and Education is a global leader in the aerospace industry. It serves as a testing ground for cutting-edge technology and innovation. Likewise, the Unmanned Systems Research Institute (USRI) leads the nation in the area of instruction and research related to unmanned aircraft system (UAS). Strong mechical and aerospace engineering programs provide the tools needed for success in Oklahoma's workforce. **go.okstate.edu |**

OKLAHOMA STATE UNIVERSITY INSTITUTE OF TECHNOLOGY

OSU Institute of Technology's Bachelor of Technology in IT-Cybersecurity & Digital Forensics is a fully online program that prepares students for the highly specialized work of protecting computers, computer systems, and networks from various threats such as hackers, cyberterrorists, viruses, and worms. As more organizations have realized the importance of cybersecurity, the demand for talent in computer security, computer forensics, IT security, and information assurance has increased rapidly. As a result, OSUIT's program is designed for those wanting to join this fast-growing field. **osuit.edu |**

“Being a part of the AOPA “You Can Fly” program as well as the Tango Flight Program as a high school student opened up new opportunities for me. The programs helped me in my journey to becoming a professional pilot. It also jump-started my knowledge for aviation at the college level. I feel like I started college ahead of some of my classmates.”

LUKE ROGERS
MCALESTER HIGH SCHOOL AVIATION PROGRAM GRADUATE
SOUTHEASTERN UNIVERSITY AEROSPACE SCIENCES INSTITUTE STUDENT

OKLAHOMA WESLEYAN COLLEGE

Responding to Oklahoma defense and aerospace industry needs, OKWU’s Cybersecurity program equips students with the technical and business knowledge needed to secure the high-paying and growing jobs in this field, all without needing to be high-ranking programmers. Portfolio-building and project-based classes ensure a robust resume before graduation and allow students to demonstrate the skills they need to land the best jobs in this emerging. high growth workforce area. **okwu.edu |**

ORAL ROBERTS UNIVERSITY

Oral Roberts University’s Engineering [Bachelor of Science -Engineering] program will empower you with a background to apply mathematics and natural sciences to turn ideas into reality. You will be able to apply creative solutions to real-world problems choosing between a concentration in Biomedical, Computer, Electrical or Mechanical Engineering. The opportunity to apply what you learn is available through research and design projects such as creating a racecar, a flight simulator, a hyperloop pod or a mechanical ventilator. The Engineering (Bachelor of Science -Engineering) program is accredited by the Engineering Accreditation Commission of ABET. **oru.edu |**

ROGERS STATE UNIVERSITY

Are you passionate about technology like drones? Do you want a career using computers to protect national security? Earning a Bachelor of Technology in Applied Technology from Rogers State University will set you on a path to exciting jobs in cybersecurity, information technology, unmanned aerial systems, and national defense. RSU’s undergraduate applied technology degree gives you real-world experience and expertise that will set you apart from other job candidates across the country. You can also ignite your passion for innovation at Rogers State and launch your future in the fast-growing field of Chemical Engineering. Through hands-on learning experiences, their comprehensive chemical engineering degree will empower you by building practical skills, and gaining a global perspective that will set you apart in the workforce. **rsu.edu |**

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ROSE STATE COLLEGE

Rose State College is a public, two-year institution with an “open-door” admissions policy. Rose State welcomes more than 13,000 students each year to its 120-acre campus and online classrooms and is dedicated to helping each and every student succeed. Located in Midwest City near Tinker Airforce Base, we are committed to providing academic major and Workforce initiatives and training that serve the students and industry partners of aerospace. **rose.edu |**

SEMINOLE STATE COLLEGE

Innovations resulting from science, technology, engineering and math (STEM) fields have positively touched every aspect of human life. As an institution that seeks to meet the needs of both students and Oklahoma workforce, Seminole State offers Associates Degree programs in both Engineering Technology and Pre-Engineering. **sscok.edu |**

SOUTHEASTERN OKLAHOMA STATE UNIVERSITY

The AABI International accredited Aerospace Sciences Institute [ASI] provides its students with the highest quality education in aviation and flight training possible. While the ASI has a history of nearly 60 years of aviation education, the addition of new programming in areas of un-manned aircraft (UAS/AAM) and aircraft dispatching signals that Southeastern is not just about traditional aviation anymore. A student of the Aerospace Sciences Institute receives an educational experience which allows them to be placed in career fields all over the aerospace industry in Oklahoma and beyond. **se.edu |**

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY

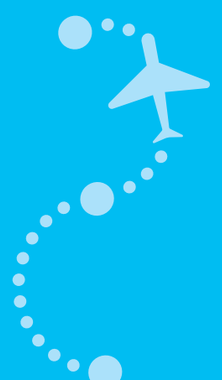
At Southwestern Oklahoma State University, aerospace and defense workforce development are nothing new. They are part of the very fabric of the university and have become an integral part of the college’s continued growth in innovation. SWOSU sends a steady stream of graduates into the aerospace and aviation industries; locally, Tinker Air Force Base and Boeing are consistently the largest employers of SWOSU graduates. **swosu.edu |**

SPARTAN COLLEGE OF AERONAUTICS & TECHNOLOGY

Spartan College of Aeronautics and Technology trains the next generation of aviation professionals with technology-focused practical skills that emphasize safety and has been doing it for nearly 100 years. Whether you are interested in pursuing training as a professional pilot or prefer to keep your boots on the ground as an aviation maintenance technician, the programs are hands-on and designed to prepare you to apply your skills in the growing aviation industry. **spartan.edu |**

IN THE LAST 5 YEARS —

THE OKLAHOMA DEPARTMENT OF AEROSPACE AND AERONAUTICS HAS AWARDED OVER $1.9 MILLION IN EDUCATION GRANTS AND CONTRACTS



THE UNIVERSITY OF CENTRAL OKLAHOMA

The University of Central Oklahoma School of Engineering is home to four accredited engineering programs including electrical engineering, engineering physics and mechanical engineering. These programs are accredited by ABET, which confirms they have met the standards essential to prepare students to enter critical engineering occupations in the global workforce – meeting the critical workforce demand in Oklahoma. Students graduating from the UCO School of Engineering are equipped to enter the aerospace industry and will develop a solid educational foundation to lead the way in innovation and emerging technologies. **ou.edu |**

THE UNIVERSITY OF OKLAHOMA

The OU College of Atmospheric and Geographic Sciences offers a bachelor's degree with a major in Aviation that can help perspective students achieve their career goals. The Bachelor of Science with a major in aviation offers four concentrations for students to consider. The concentrations allow students to develop the leadership and communication skills required for management positions. Each concentration has a strong foundation in aviation principles, law and business to prepare students to function as private/commercial pilots, in aviation business or other jobs in the aerospace industry. The University also boasts strong engineering programs, with OU's aerospace engineering program the first in the nation to have an emphasis on multidisciplinary Intelligent Aerospace Systems. This forward-thinking concept provides students with the advanced-technology background necessary to work in today's high-tech aerospace industries. **ou.edu |**

THE UNIVERSITY OF OKLAHOMA POLYTECHNIC INSTITUTE, OU-TULSA

The University of Oklahoma Polytechnic Institute (OUPI) at OU-Tulsa is focused on high-demand, advanced and applied technology-based education. OUPI prepares graduates to transform industries in Oklahoma by offering innovative programs meeting growing demands in the fields of Cybersecurity and Artificial Intelligence which help meet the changing academic and workforce needs of Oklahoma largely thanks to our close working relationship with aerospace industry partners. **ou.edu/tulsa/polytechnic |**

THE UNIVERSITY OF TULSA

Ranked nationally by U.S. News Best Undergraduate Cybersecurity Programs, TU offers an undergraduate minor, a B.S. and M.S. in Cybersecurity, as well as a Ph.D. in Cyber Studies. Graduates are equipped to meet employer demands and serve in intellectually stimulating and personally rewarding roles that strengthen national and global security, filling one of the more than one million open cybersecurity jobs. TU's cyber program is certified by the NSA and US Department of Homeland Security as a Center of Excellence in Cyber Operations. Boasting degree programs in Electrical, Chemical, Computer, Mechanical, and Petroleum Engineering as well Engineering Physics and Data Science, TU's College of Engineering & Computer Science provides a modern high-quality educational experience for all students seeking the enter Oklahoma's aerospace industry. **utulsa.edu |**

TULSA COMMUNITY COLLEGE

Housed at the Tulsa Community College Riverside Campus and Aviation Center, Tulsa Community College's academic programs include Professional Pilot, Air Traffic Control, and Aircraft Dispatch as well as concurrent enrollment and university-transfer general education classes. The school houses a fleet of technically advanced aircraft; a $1.4 million air traffic control simulator; and a simulation lab that includes a full-motion flight training simulator. **tulsacc.edu |**

WESTERN OKLAHOMA STATE COLLEGE

Western Oklahoma State offers Associate of Applied Science degree programs in Applied Technology (Aviation), Applied Technology (Cyber Security) and Engineering Technology with the aim of meeting Oklahoma workforce demands. **wosc.edu |**

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OKLAHOMA
Aerospace & Aeronautics

The Oklahoma Department of Aerospace and Aeronautics serves as the lead government agency to support, promote, and advocate for the state's second largest industry, aviation and aerospace. The agency is responsible for the administration and/or coordination of a statewide system of airports, cooperating with and assisting local, state, and federal authorities in the development of aviation infrastructure and facilities, acting as the central resource point in state government for the up-and-coming Unmanned and Advanced Air Mobility sector, and fostering the success of the state's overall aerospace industry. The Department administers a robust aerospace and aviation education grant program to help the aviation and aerospace industry with their workforce challenges by introducing Oklahoma students to the available STEM careers that the industry has to offer.

OKLAHOMA.GOV/AEROSPACE | 405.604.6900

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