



# SPARTAN

COLLEGE OF AERONAUTICS AND TECHNOLOGY

## Tulsa, Oklahoma Campus

### AVIATION ELECTRONICS TECHNOLOGY (AVIONICS)

As global airways grow more congested, pilots must now rely more than ever on the integrity of aircraft navigation and communication systems to keep air travel safe. Advances in the electronics (sometimes referred to as avionics) of traditional aircraft, expansion of airline fleets, and the emergence of unmanned aerial systems (UAS), have resulted in a need for avionic skills with knowledge in manufacturing, maintenance, repair, and installation of new and existing systems.

Aviation electronics technicians play a key role in the development and deployment of satellites, helicopters, and aircraft of different types and sizes.



#### RELEVANT TRAINING AIDS

- Navigation systems
- Gyroscopes and autopilot systems
- Weather radar
- Unmanned aerial systems (Drones)
- Electronic flight instrument systems and instrument landings
- Flight simulation
- Air traffic control transponders

### ASSOCIATE OF APPLIED SCIENCE AVIATION ELECTRONICS TECHNOLOGY

Program Length: 18 months

(D.O.T. Electronics Technician D.O.T. 828.261-22, 003.161-014, 726.687-010 and Avionics/UAV Technician 823.261-026)

This program is occupationally focused and designed to teach students entry-level technical skills in aviation electronics that may be applicable in other industries. The program teaches students to read and use aircraft maintenance manuals as well as read and interpret aircraft commercial drawings and electronics schematics. They study FAA regulations and learn the proper use of basic tools and test equipment, study electronic theory, and have hands-on training in the installation, troubleshooting and repair of electronic and avionics systems. The curriculum includes many aspects of Unmanned Aerial Systems (UAS), such as classes, size, capabilities/limitations, and different technologies. General education courses may provide students with foundational information of diverse subject matter, fostering critical thinking and communication skills. The program includes online coursework. Before and during enrollment, ensure that you're in a location eligible for online courses: Distance Education State Authorization List and Policy at: <https://www.spartan.edu/tulsa/consumer-information/>



## GRADUATE OUTLOOK

While no college can guarantee employment, employer, position, or salary, the following employers represent the 80th percentile of 23 AET graduates placed from 2022-2024, each hiring at least two graduates into entry-level positions.

### EMPLOYER EXAMPLES

- Aviation Avionics And Instruments
- Lufthansa Technik
- Boeing



### DEMAND FOR AVIATION TECHNICIANS

According to the 2024-2043 Boeing Pilot and Technician Outlook, 123,000 new aviation technicians will be needed to maintain the North American fleet over the next 20 years. This forecast includes demand across various technician roles, including some requiring FAA A&P certification, and is not limited to avionics positions.

Boeing Commercial Pilot, Civil Pilot, Aviation Technician & Cabin Crew Demand Outlook 2024-2043 North American statistics may not reflect the demand of workers in particular parts of the country or your local area. [www.Boeing.com/PTO](http://www.Boeing.com/PTO)



### TULSA CAMPUS

Tulsa has a thriving cultural scene, outdoor parks, activities and natural beauty for places to stay and play. The Tulsa campus offers financial aid for those who apply and qualify.



### SPARTAN TRADITION

"Knowledge and Skill Overcome Superstition and Luck." The Black Cat was the original insignia of the Spartan Dawn Patrol; its origin is an integral part of Spartan's history, dating back to 1929.



#### SPARTAN COLLEGE OF AERONAUTICS AND TECHNOLOGY

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