

Aircraft and Avionics Equipment Mechanics and Technicians

SOC: 49-2091 • Career Profile Report

■ Key Facts

<div>\$79,140</div> <div>Median Salary</div>	<div>160,800</div> <div>Employment</div>	<div>+5.0%</div> <div>Growth Rate</div>
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■ Requirements & Salary Range

Education: Postsecondary

■ Automation Risk Assessment

Low Risk - 25.0% probability of being automated in the next 10-20 years.
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■ Work-Life Balance

4.5/10 - Fair work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.8/10	Investigative	7.4/10
Artistic	4.4/10	Social	5.6/10
Enterprising	4.6/10	Conventional	6.4/10

■ Top Skills Required

Detail oriented, Dexterity, Mechanical skills, Observational skills, Physical strength, Problem-solving skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Aircraft and Avionics Equipment Mechanics and Technicians typically perform the following tasks:

- Test and troubleshoot instruments, components, and assemblies, using circuit testers, oscilloscopes, or voltmeters.
- Keep records of maintenance and repair work.
- Adjust, repair, or replace malfunctioning components or assemblies, using hand tools or soldering irons.
- Install electrical and electronic components, assemblies, and systems in aircraft, using hand tools, power tools, or soldering irons.
- Set up and operate ground support and test equipment to perform functional flight tests of electrical and electronic systems.
- Assemble components such as switches, electrical controls, and junction boxes, using hand tools or soldering irons.
- Lay out installation of aircraft assemblies and systems, following documentation such as blueprints, manuals, and wiring diagrams.
- Connect components to assemblies such as radio systems, instruments, magnetos, inverters, and in-flight refueling systems, using hand tools and soldering irons.
- Interpret flight test data to diagnose malfunctions and systemic performance problems.
- Coordinate work with that of engineers, technicians, and other aircraft maintenance personnel.
- Fabricate parts and test aids as required.
- Assemble prototypes or models of circuits, instruments, and systems for use in testing.
- Operate computer-aided drafting and design applications to design avionics system modifications.
- Perform installation, testing, adjustment, and repair of avionics equipment in uncrewed aerial vehicles, such as drones.

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O*NET*

Source: <https://www.bls.gov/ooh/installation-maintenance-and-repair/aircraft-and-avionics-equipment-mechanics-and-technicians.htm>