STATEMENT OF WORK

1. Objective/Requirements

Armstrong Flight Research Center operates a unique and diverse fleet of aircraft, requiring technical personnel to maintain working knowledge across multiple aviation disciplines, aircraft configurations, and avionics architectures. Unlike organizations that primarily support routine aircraft operations, AFRC supports science, research, and flight-test missions where personnel must be conversant across multiple technical disciplines to effectively inspect, oversee, document, and support maintenance activities.

Most aircraft mechanics receive only cursory instruction in aircraft avionics systems. However, Armstrong inspectors require a deeper practical understanding of avionics systems to support the complexity and variability of AFRC missions. This broader understanding is necessary to evaluate maintenance activities, identify inspection concerns, communicate effectively with maintenance and engineering personnel, and ensure that aircraft maintenance documentation is complete, accurate, and technically sound.

A training course is required for inspectors without an avionics background to strengthen their understanding of avionics terminology, system architecture, component function, troubleshooting concepts, maintenance documentation, and inspection considerations associated with modern aircraft avionics. This training will support improved technical oversight, maintenance quality assurance, inspection effectiveness, and communication among maintenance, inspection, engineering, and operations personnel.

The requirement is for an established, commercially available, aviation-maintenance-focused avionics essentials course applicable to multiple aircraft platforms. Because of AFRC's unique mission requirements and diverse aircraft fleet, the minimum need cannot be satisfied through a general electronics class, a college-level avionics survey course, or an aircraft-type-specific maintenance course. Those alternatives are either too broad, too academic, or too narrowly focused on a single aircraft platform to meet AFRC's practical inspection and maintenance oversight needs.

2. Characteristics, Scope, and Specs

- Provide 7 seats in avionics course that meet Armstrong Flight Research Center's needs.
- Training shall be delivered by qualified instructors using courseware, exercises, instructional materials, and completion criteria.
- Training shall address aircraft avionics concepts and maintenance-relevant familiarization at an essentials level, including system architecture, interfaces, fault isolation logic, maintenance documentation use, inspection considerations, and safe maintenance/quality practices.
- Training shall provide a record of completion/certificate or roster suitable for NASA training documentation and audit traceability.

- Training shall occur from August 3, 2026, to August 14, 2026.
- The contractor shall provide pre-course instructions and course agenda.
- Training will be delivered onsite at Armstrong Flight Research Center.

3. Deliverables

- Student enrollment for 14 NASA students.
- Course agenda/syllabus or course description prior to class start.
- Course materials.
- Training completion documentation for each attendee.
- Invoice consistent with the accepted quote and enrollment confirmation.

4. Place of Performance

Armstrong Flight Research Center, Edwards CA.

5. Period of Performance

August 3, 2026, to August 14, 2026.