



**POSITION TITLE:**

Electrical Engineer

**LOCATION:**

Brooksville, Florida, USA

**SUMMARY OF POSITION:**

Airdyne Aerospace has an immediate opening for an Electrical Engineer to provide sustainment support, liaison, design, and integration to both its developed core product line and new products.

As the Electrical Engineer you will be required to support sustainment of developed Airdyne products, and integrate systems into these designs to meet customer and airworthiness requirements. This position includes shop floor liaison support, drafting, creation, and execution of bench test plans, creation of reports, installation support, training, and on-site flight test support. This position requires a “Team-Player” with excellent communication skills and abilities to be able to communicate and interchange ideas and knowledge effectively with all Team members at Airdyne as well as customers.

This position will require travel to support company or customer requirements which may include installation, training and testing.

**DUTIES AND RESPONSIBILITIES:**

- Perform electrical designs to integrate multiple components/systems into our SABIR core product(s). From conceptual to final design of A/C electrical systems. Detailed system design documentation skills including wire routing, shielding, harness diagrams, block diagrams and schematics are required.
- Adhere to company policies and procedures.
- Supports all Material Review Board (MRB) processes as required.
- Interact with engineering team, inspectors, shop mechanics, technicians, and management team as required.
- Design analysis for component selection for airworthiness.
- Generate Electric Load Analysis using Airdyne format and appropriate reference(s).
- Use AutoCAD for design of electrical Interconnect, Schematics and wire harnesses drawings.
- Design for Electrical Wiring Interconnect System (EWIS) on component integration and aircraft interface.
- Create, check, approve of Electrical Wiring Interconnect, Schematics and Harness drawings
- Creation and/or check of Mechanical/Electrical assembly and subassembly drawings.
- Electrical/Electronic Systems Analysis
- RF Analysis/Antenna Co-Site Performance Analysis
- Generation of EMI/EMC/HERP/HERF Analysis and Test Plans
- Motion control, electrical loads analysis, failure modes effects & criticality analysis, and electrical systems design and integration into existing aircraft system.
- Technical report writing, component/part sourcing vendor validation and associated specification generation and airworthiness compliance skills are also required Assures product and process quality by designing testing methods; testing finished- product and process capabilities; establishing standards; confirming manufacturing processes.

**REQUIRED QUALIFICATIONS:**

- Minimum of a Bachelor's Degree in Electrical Engineering, with credentials.
- Min 10 years' – Max 20 Years' of integration experience with sensors (optical/RF/Radar), avionics, and other complex electrical systems involving design work starting at the conceptual level, maturing into final production design.
- 10 years' of creating aerospace wiring interconnect, wiring schematics, wiring harness drawings using drafting standards, and approved CAD Software.
- 7 years' of electrical design experience with CAD Software with practical experience and understanding of drafting standards (ASME Y14.44, ASME Y14-24, ASME Y14.5 and ASME Y14.100.)
- Detailed knowledge of regulatory (FAA and/or military) issues related to aircraft design and analysis and their impact on conformity and compliance is required (i.e., certification, qualification).
- Experience in technical report writing and must have excellent communication skills, be fluent in English (spoken and written) and proficient in MS Word, MS Excel, MS Teams.
- Experience with Aerospace Wiring and Installation requirements (e.g. SAE AS50881).
- Design experience with MIL-DTL-38999, MIL-DTL-5015 and MIL-DTL-23308 connectors and associated strain reliefs (to include Environmental and EMI/EMC).
- Experience generating Electric Load Analysis, Co-Site Performance Analysis, EMI/EMC/HERP/HERF Analysis and Test Plans, and failure modes effects & criticality analysis.

**DESIRED QUALIFICATIONS:**

- Design/integration experience with RS-232, RS-422, Ethernet, MIL-STD-1553, and discrete wiring.
- Experience with RF systems and Antenna Installation, design, and analysis.
- Familiar with MIL-STD-810, MIL-STD-461, MIL-STD-464 and DO-160 testing and design requirements.
- Familiar with MIL-STD-704 Series AC/DC Power Requirements for Utilization Equipment.
- Familiar with Electrical Load Analysis per MIL-E-7016, ASTM F2490-05 and/or AC 21- 38.

**ELIGIBILITY OF APPLICANTS:**

Candidates for this position must conform to U.S. Government export regulations, including the International Traffic in Arms Regulations (ITAR). Candidates must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3).

Candidates for this position must have nothing in their background that precludes international travel and/or access to any military installation.

**JOB TYPE:** Full time

**SALARY:** Based on qualifications

**BENEFITS:** Health, dental, vision care

**TRAVEL:** Less than 10%; international to Canada, etc.



**REMOTE OR ONSITE:** Onsite

**RELOCATION:** Yes

**INTERVIEW TYPE:** Telephone and Company Site

**All applicants must include a cover letter and salary requirements to be considered.**

Cover letter must provide the following:

1. Introduction
2. Reason that individual would be the best fit for the position
3. Questions about the position.
4. Salary Requirements

Airdyne Aerospace participates in E-Verify employment authorization.

Airdyne Aerospace is compliant with 52.222-35, Equal Opportunity for Veterans; and 52.222-36, Equal Opportunity for Workers with Disabilities. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, disability, age, genetic information, or protected veteran status.