COMPANY DESCRIPTION:
Airdyne is a small, privately owned, highly focused aircraft special mission systems engineering, manufacturing and aerospace research firm.

POSITION TITLE: Intermediate Systems/Electrical Engineer

LOCATION: Calgary, Alberta, Canada

SUMMARY OF POSITION/ POSITION DUTIES:

Airdyne R&D has immediate openings for an Electrical engineer to provide design, integration and sustainment support to both new products and its recently developed core product line. These positions require a “Team-Player” with excellent communication skills and abilities to be able to communicate and interchange ideas and knowledge effectively with all members of the production team, Engineering Design Team and Management.

This position will require the individual perform and assist in electrical designs for integration, generation of reports and analysis, use of CAD Software to generate Electrical Interconnection Drawings, Electrical Schematic Drawings and Harness Fabrication Drawings, and additional tasks directed by management. Develop, design and qualify integrated electrical, mechanical aircraft systems. The job will also involve reviewing the existing designs and test data and identify areas for development or further improvement, and supporting fabrication issues as they arise

The scope of the avionics integration activities include flight avionics hardware, signal conditioning, data acquisition, RF communication, wire harnesses, vehicle guidance, navigation, control, fault tolerance, ground-support electronics hardware and software.

Perform engineering analysis, execute verification test procedures and support the production line in adjudicating failures and determining root cause. The position involves working in a multidisciplinary environment with both engineers and production staff.

This position will require travel to support any training/testing to the company or customer as required.

REQUIRED:

- Minimum education of an Associate’s Degree in Electrical Engineering or relevant discipline with credentials.
- You must have at least 5 years of relevant engineering experience.
- Minimum of 2 years of experience with CAD Software (preferably SOLIDWORKS Electrical).
- Proficiency in creating Wiring Interconnect, Wiring Schematics, Wiring Harness Drawings using Drafting Standards and approved CAD Software.
- In depth knowledge of Avionics Electrical harness fabrication and integration processes such as Aerospace Wiring and Installation requirements (SAE AS50881).
- Familiar with MIL-STD-704 Series AC/DC Power Requirements for Utilization Equipment.
- Familiar with VHF/UHF/L-Band Communications Design requirements.
- Demonstrated ability to apply ASME Y14.44, ASME Y14-24, ASME Y14.5 and ASME Y14.100.

- 2 years of design experience with MIL-DTL-38999, MIL-DTL-5015 and MIL-DTL-23308 connectors and associated strain reliefs (to include Environmental and EMI/EMC).

- Familiar with MIL-STD-810, MIL-STD-461, MIL-STD-464 and DO-160 testing and design requirements.

- Ability to generate Electrical Load Analysis per MIL-E-7016, ASTM F2490-05 and/or AC 21-38.

DESIRED:

- Bachelor's Degree in Electrical Engineering with credentials.

- Greater than 5 years' experience in the REQUIRED fields

- Greater than 2 years of production support and shop floor liaison experience

- 2 years of design/integration experience with RS-232, RS-422, Ethernet, MIL-STD-1553, and discrete wiring.

- Practical electrical fabrication experience.

- Greater than 5 years of experience designing with MIL-STD-704 Series AC/DC Power Requirements for Utilization Equipment3 years of experience in the design intent, generation of test plans and analysis for EMI/EMC/EMF in accordance with MIL-STD-810, MIL-STD-461, MIL-STD-464.

- Greater than 2 years of experience with Link-14/16 systems integration.

- Greater than 2 years of experience with VHF/UHF/L-Band Communications integration and/or design requirements.

- 3 years of Motion Control Design experience.

- Gerber File Creation experience for PCB Design.

- Development of ground test plans and flight test plans for avionics equipment evaluation must also know aircraft EMI/EMC/RFI testing procedures and knowledge of associated MIL Standards and reporting methodologies.

- Ability to perform system safety analysis, create fault trees, trouble shooting guides and write and contribute to Failure and Hazard Analysis (FHA/FMECA) reports. Complete hazard assessments and system safety assessments.

- 2 years of experience design experience with Radar, EO/IR, Datalinks, and C4ISR.

- Experience with the Lockheed Martin C-130/L-100, Leonardo C-27J, or similar.

 All inquiries can be sent to **rd-jobs@airdyne-aero.com**

TYPE OF WORK: Lockheed Martin C-130/L-100, Alenia C-27J, or similar.

SALARY AND BENEFITS: Based upon qualifications.

JOB TYPE: Full-time

ELIGIBILITY OF APPLICANTS: Must be legally authorized to work in Canada.

TRAVEL: Yes

RELOCATION: Yes

INTERVIEW TYPE: Telephone or 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

All qualified applicants will receive consideration for employment without regard to race, national or ethnic origin, colour, religion, age, sex, sexual orientation, gender identity or expression, marital status, genetic characteristics, disability or conviction for an offence for which a pardon has been granted or in respect of which a record suspension has been ordered. No person shall be denied employment opportunities or benefits for reasons unrelated to ability and, in the fulfilment of that goal, to correct the conditions of disadvantage in employment experienced by women, Aboriginal peoples, persons with disabilities and members of visible minorities by giving effect to the principle that employment equity means more than treating persons in the same way but also requires special measures and the accommodation of differences.

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