



SENIOR ELECTRICAL ENGINEER

Job Responsibilities

- Perform technical planning associated with the design and development of electrical and electronic systems
- Interpret electrical Interface Control Documentation to assist with system integration, verification, and validation
- Provide test support, cost and risk analyses, and supportability and effectiveness analyses for total systems
- Perform electrical loads testing and analysis, circuit design and test, design power protection and safety interlock features, trade studies, electrical system requirement allocations and electrical interface definition studies to translate customer requirements into electrical hardware and software specifications
- Work with existing aircraft AC and DC power sources and convert into useful power for programs by the most efficient and safe means
- Support program proposals with cost and schedule estimates
- Support interface with customers, program personnel including management, integration and test, and system design engineers, and systems architects
- Assist in clarification and interpretation of installation and harness fabrication drawings
- Position requires the desire and ability to work in a fast paced, fluid environment and adapt to frequently changing needs of programs and customers
- Create electrical technical data to include drawings, electrical loads reports, test plans, and system safety analysis.

Knowledge and Experience

- Knowledge/familiarity with MIL-STD-704/461, SAE AS50881, AC 43.13-1B/2A, IPC-/WHMA-A-620, FAA CERTIFICATIONS (i.e. 337 and 8110), FAR handbooks, and 14 CFR Parts 23, 25, 27, and 29
- Experience with aircraft harness design, manufacturing, and routing
- Experience with aerospace\mil-spec connectors, wire and cable specifications (M22759, M27500), accessories and parts suppliers\vendors
- Experience utilizing industry specific software packages (i.e. SolidWorks Electrical, Zuken E3 Wireworks, and/or AutoCAD LT) to create electrical system installation, wire routing, and harness schematic designs and drawings

Give me a lever long enough, and a fulcrum on which to place it, and I shall move the world - Archimedes



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- Knowledge of aircraft avionics, electrical power, and RF communications
- Knowledge of grounding and bonding techniques on metal and composite airframes
- Military experience in an electrical/avionics school considered a plus
- Must be able to read, speak, and write English
- Must be able to obtain and maintain a SECRET security clearance, if required

Physical Requirements

- Ability to lift and carry up to 50lbs
- Ability to work safely in and around aircraft
- Ability to work with small components and tools in confined spaces
- Ability to work for extended periods at computer workstation
- Ability to travel domestically and overseas if needed

Education

- Bachelor of Science in Electrical Engineering from an ABET accredited college
- Four to ten (4-10) years of professional experience in aircraft electrical engineering with the B.S. Three to seven (3-7) years with M.S. degree.
- FAA Airframe and Powerplant Mechanic certificate considered a plus

Benefits include:

- 401(k) Safe Harbor Savings Plan
- Medical, Dental, and Vision Insurance Plans
- Short and Long Term and Disability
- Vacation and Sick Leave Packages
- 12 Paid Holidays each year
- 9/80 Work Schedule

The assigned personnel are responsible for the listed duties and responsibilities plus any other direction and responsibilities assigned by the Managing Members.



Fulcrum Concepts, LLC is a service disabled, veteran-owned, small business that provides innovative services and products to solve requirements for its customers. Fulcrum Concepts, LLC specializes in solutions for tactical aviation organizations and is structured to provide comprehensive solutions that begin with an initial requirement and end with fielded products. At Fulcrum Concepts, the unique combination of operational experience and a robust aerospace engineering capability enable the company to provide elegant, lightweight, enduring solutions for its customers.

Fulcrum Concepts, LLC provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to race, color, religion, sex, national origin, age, disability, genetics or veteran status. In addition to federal law requirements, Fulcrum Concepts, LLC complies with applicable state and local laws governing nondiscrimination in employment. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation, and training.

