



## JUNIOR ELECTRICAL ENGINEER

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### **Job Responsibilities**

- Assists with the technical planning
- Assist with electrical systems design, interface definition, system integration, and system verification and validation test support
- Conduct cost and risk analyses for power, communications, avionics, weapons, and other systems
- 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
- Position requires the desire and ability to work in a fast paced, fluid environment and adapt to frequently changing needs of programs and customers
- Contributes to analysis of total system product to include: concept, design, fabrication, test, installation, operation, and maintenance

### **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 preferred
- Experience with aircraft harness design, manufacturing, and routing preferred
- Experience with aerospace\mil-spec connectors, wire and cable specifications (M22759, M27500), accessories and parts suppliers\vendors preferred
- 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
- 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

*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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## **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's Degree from 4-year accredited institution and 0-2 years applicable engineering experience or;
- Master's Degree from accredited institution or;
- At least 6 years applicable field experience in lieu of 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
- 13 Paid Holidays each year
- 9/80 Work Schedule

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

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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 is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to sex, gender identity, sexual orientation, race, color, religion, national origin, disability, protected veteran status, age or any other characteristic protected by law. In addition to federal law requirements, Fulcrum Concepts, LLC complies with applicable state and local laws governing nondiscrimination in employment

