



## **Electrical Engineer, Hardware – On Site**

**29 DEC 2023**

Aerovel is seeking an experienced Electrical Engineer to join our team on-site in Bingen, WA developing and manufacturing the next generation of long-range robotic aircraft. Aerovel is led by the aeronautical veterans who invented and developed the Group 2 small tactical unmanned aerial system (STUAS), a backbone of US military and allied intelligence, surveillance, target acquisition and reconnaissance (ISTAR) missions worldwide. The Group 2 UAS systems have contributed significantly to the effectiveness of US and allied troops as well as their safety and security. Aerovel Flexrotor is the most advanced STUAS with vertical take-off and landing (VTOL). It is designed for the demanding reliability and specifications required by the US Department of Defense (DOD) while being affordable for commercial applications.

Aerovel offers competitive compensation and benefits including health insurance, and 401k.

### **JOB DESCRIPTION**

- Design and develop new hardware features that continue the advancement of Flexrotor capabilities, including, testing, production support, and sustainment of aircraft and related equipment electrical systems, such as:
  - Flight, mission, payload computer
  - Customer payload integrations
  - Battery management and charging systems
  - Generators and electric motors
  - IMU, GPS, Radios, Encryption
  - CAN BUS node, and avionics PCBA
  - Harnesses
- Resolve obsolescence and lead-time issues for PCB, harness, and other electrical components and assemblies, identifying alternate or replacement components, changing and validating design as required.
- Create, review, and approve electrical designs, PCBA packages, maintaining organized configuration control.
- Determine test requirements for qualification of new or changed electrical designs.
- Qualify new suppliers for electrical components and assemblies in scope of approval.
- Troubleshoot electrical issues in development and production aircraft to determine root cause, develop engineering resolution, and implement corrective action.

### **QUALIFICATIONS**

- Knowledge of unmanned aircraft avionics systems and components, sensors, actuators, power and communications architecture, and operational environments.
- Experience and working knowledge in the field of mechatronics, robotics, and control systems
- Demonstrated experience with PCB design, tolerance analysis, sourcing, testing and first article qualification, through production launch and sustainment.

- Experience and working knowledge of production techniques and quality systems in aerospace manufacturing environment.
- Knowledge and experience in requirements definition and production validation including environmental stress screening.
- Experience troubleshooting diverse range of electrical technical issues in aircraft like systems, including EMI, environmental, and manufacturing quality factors.
- Experience with Altium Designer and generation of detailed PCB design packages, electrical designs, schematics, maintaining accurate configuration management.
- Knowledgeable of IPC and safe ESD practices.
- Minimum of a Bachelor's degree and five to unlimited years' experience in electrical engineering, or similar accredited degree program.
- Ability to work on-site at the engineering and manufacturing facilities.
- Desire join a fast pace, customer-focused company in the exciting unmanned aerospace industry!

#### WEBSITE

- [aerovel.com](http://aerovel.com)

If you have what it takes to do groundbreaking work with unmanned aerial systems, please send your resume and cover letter to [jobs@aerovel.com](mailto:jobs@aerovel.com)

*Aerovel is committed to a diverse workforce. As an Equal Opportunity Employer we provide equal opportunity to all persons, regardless of race, religion, age, gender, disability, status as a protected veteran, national origin, color, or any other classification in accordance with federal, state, and local statutes, regulations and ordinances. Veterans are encouraged to self-identify as Aerovel desires to provide protected veterans priority referrals for open positions. Aerovel complies with all laws and regulations associated with the Family Medical Leave Act (FMLA).*