

Reports To: **Engineering Manager**

Job Title: **Senior Mechanical Engineer**

### Elevate Your Career as a Senior Mechanical Engineer with Us!

If you're someone who loves to see their work in action and make an impact on **real-world aerospace technologies**, this is your stage!

Come join our growing team in support of the development of the next generation of battery electronics at Acme Aerospace, Inc. We are a leading manufacturer in the **design and manufacture of custom batteries and battery control electronic systems** for military and commercial aircraft applications.

The Senior Mechanical Engineer is responsible for supporting and creating mechanical designs, drawings and PCB outlines in support of new product development and product improvements. The candidate will be required to architect innovative Battery/Electronic Packaging Designs for the aerospace industry. The candidate should be skilled in 3-D modeling and thermal and stress simulation tools to verify designs.

#### What You'll Do:

- **Design with impact:** Create innovative mechanical packaging solutions for battery systems and battery chargers in aerospace applications.
- **Bridge disciplines:** Collaborate with Electrical and PCB Layout Engineers to ensure optimal part placement and system integration.
- **Own the details:** Develop comprehensive assembly drawings, wire lists, and support materials for production and proposal efforts.
- **Validate your designs:** Run thermal and stress simulations to prove out your designs using tools like SolidWorks, Flotherm, and Ansys.
- **Engineer for reliability:** Perform tolerance analysis and design verification aligned with rigorous aerospace standards (DO-160, MIL-STD-810, MIL-STD-461).
- **Contribute and lead:** Present at Design Reviews (PDR, CDR) and deliver complete drawing packages, BOMs, and part lists.
- **Support production:** Assist in transitioning designs from engineering to manufacturing while supporting cost reduction efforts through validated alternate parts.
- **Drive DFM:** Apply best practices in Design for Manufacturing to ensure every solution is efficient, manufacturable, and ready for the field.

#### What You'll Bring:

- **7+ years** of experience in **mechanical design** and **packaging of electronic assemblies**.
- Proven proficiency in SolidWorks CAD and PDM for **3D modeling, drawings, and documentation**.
- Strong background in **designing machined, sheet metal, and cast parts** for aerospace environments.
- Experience creating **complete engineering drawing sets** for piece parts and assemblies.
- Familiarity with **aerospace environmental and EMI/EMC standards** (DO-160, MIL-STD-810, MIL-STD-461).
- Advanced knowledge of **DFM** and manufacturing process constraints.
- Hands-on experience with **simulation tools** (SolidWorks Simulation, Ansys, Flotherm) to verify designs under thermal and mechanical stress.

### What You'll Bring: (cont.)

- Basic understanding of **welds, soldering, and interconnect techniques**.
- **Bachelor's degree** in Mechanical Engineering required (Master's preferred).
- **FEA skills** to conduct static and dynamic modeling (a plus).

### Why You'll Love Working With Us:

- **Impactful Work:** Be at the forefront of developing technologies that shape the aerospace and defense industries.
- **Team Culture:** Join a collaborative team that values innovation, creativity, and a shared vision for excellence.
- **Professional Growth:** Take advantage of opportunities for career advancement and professional development.
- **Dynamic Environment:** Engage in a variety of projects that keep your work exciting and challenging.

### International Trade Compliance Requirements

Due to the potential exposure to ITAR-controlled data and export control regulations, the applicant in this role must be a qualified U.S. person as designated under INA, 8 U.S.C. 1324b(a)(3) or be eligible for any required authorizations from the U.S. Government.

### Physical Demands

With or without reasonable accommodation:

- Must be able to lift documents and work materials up to 40 pounds.
- Must be able to listen, understand, and communicate clearly with personnel at all organizational levels.

### Work Environment

- Work is performed in both office and manufacturing environments.
- Exposure to standard temperature-controlled office conditions and variable shop floor conditions.
- Noise levels may be moderate to high at times.

### Disclaimer

The above information on this description has been designed to indicate the general nature and level of work performance by employees within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities and qualifications required of employees assigned to this job.

Acme Aerospace Inc. is an Equal Opportunity Employer and encourages the application of female, minority, disabled and veteran candidates. candidates must be able to perform essential responsibilities with or without reasonable accommodations. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identify, or national origin. Due to the potential for exposure to ITAR controlled data, the incumbent in this role must be a US Person (US Citizen or US Permanent Resident). Interested candidates should submit their resume and salary requirements.