

Reports To: **Engineering Manager**

Job Title: **Senior Electrical Engineer**

Elevate Your Career as an Electrical 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 Electrical Engineer is responsible for designing and testing electrical circuits in support of new product developments as well as enhancing existing products in our energy storage product portfolio.

What You'll Do:

- **Own the challenge:** Take full responsibility for customer technical requirements and transform them into robust, efficient solutions.
- **Design with purpose:** Develop advanced **Printed Circuit Boards (PCBs)** for **Power Supplies, Battery Chargers, and Battery Management Systems** that meet real-world needs.
- **Bring ideas to life:** Create, simulate, and test complex mixed-signal circuits using tools like **SPICE** and **MATLAB**.
- **Push the limits:** Drive designs through rigorous **qualification testing** to meet industry standards such as **DO-160, MIL-STD-704, and MIL-STD-461**.
- **Lead Preliminary Design Reviews (PDR) and Critical Design Reviews (CDR)** to ensure the design meets technical, cost, and schedule objectives while aligning with stakeholder expectations.
- **Lead innovation:** Resolve challenges in existing products while delivering reliable, next-generation solutions.
- **Get hands-on:** Use cutting-edge lab tools (oscilloscopes, DAQ, DMMs) to troubleshoot, validate, and perfect your designs.
- **Own the process:** Develop detailed test plans, reports, and acceptance procedures to ensure your designs excel in performance and reliability.
- **Collaborate and innovate:** Work alongside cross-functional teams to bring products from concept to production.

What You'll Bring:

- **7+ years** of hands-on experience in **circuit design** with a focus on **power electronics** (AC/DC, DC/DC converters, battery chargers).
- **Expertise** in analog and digital design, with strong preferred skills in **PWM control, Power MOSFETs, and IGBT technologies**.
- A proven ability to **own designs** – from initial schematics to final product testing.
- Familiarity with **EMI/EMC principles** and mitigation strategies.

What You'll Bring: (cont.)

- Proficiency in lab equipment (oscilloscopes, signal generators, DMMs) to troubleshoot and validate designs.
- Experience designing to meet **industry standards** like **DO-160** and **MIL-STD-704**.
- Strong understanding of simulation tools (**MATLAB**, **SPICE**) to validate and optimize designs.
- A solid foundation in **C/C++ programming** for embedded systems (a plus).
- A passion for innovation, problem-solving, and growing into a **leadership role**.
- A **Bachelor's degree** in Electrical Engineering (Master's preferred).

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.

Ready to Take the Next Step?

If you're eager to make a significant impact and advance your career in a thrilling and supportive environment, we'd love to hear from you!

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.