



JOB DESCRIPTION

Job Title: Electrical Engineer – Battery Systems & BMS

Approved: Mar 04, 2026

Job Classification: Salary

FLSA Status: Exempt

Department: Engineering

Reports To: Engineering Manager

Work Location: Vista, CA

About Flux Power

We design and manufacture advanced lithium-ion energy storage solutions for industrial and commercial applications, including material handling equipment, airport ground support equipment, and emerging automation platforms. Our mission is to accelerate the transition to clean, high-performance electric power systems through innovative battery technology and intelligent energy management systems.

Job Summary

Flux Power is seeking an Electrical Engineer to help build the next generation of lithium-ion battery and Battery Management System (BMS) technologies powering the electrification of industrial equipment.

In this role, you will design, test, and integrate battery electronics and sensing systems that manage advanced lithium-ion battery energy storage solutions. You will work alongside experienced engineers across electrical, mechanical, firmware, and manufacturing disciplines to develop innovative battery solutions from concept through production, gaining hands-on experience with battery systems, BMS electronics, power electronics, and real-world product development.

This is a hands-on hardware engineering role where you will design circuits, build prototypes, perform electrical testing, and debug real battery systems operating in demanding industrial environments. This position is ideal for engineers early in their careers who want to develop electrical solutions that advance sustainable industrial electrification. The systems you build will power industrial vehicles, automated material handling equipment, and airport ground support equipment, helping replace legacy fuel-powered systems with clean electric technology.

If you are passionate about solving challenging engineering problems and want to help build the future of sustainable energy and electrified mobility, this role offers the opportunity to make a meaningful impact while growing your expertise in one of the fastest-growing technology sectors.

Why This Role Matters

Electrification is transforming how industrial equipment operates. Lithium-ion battery systems are rapidly replacing all other energy solutions across material handling, airport ground support equipment, and automated industrial vehicles.

At Flux Power, engineers work on battery systems that are deployed in real-world fleets operating every day in demanding environments. The technologies developed here directly improve safety, energy efficiency, and operational performance while helping reduce emissions across industrial operations.

As an Electrical Engineer on our team, you will help develop the battery electronics and Battery Management Systems that make high-performance lithium-ion energy storage possible, contributing directly to the transition toward cleaner, more efficient electric power systems.

What You Will Work On

- Design high-power lithium-ion battery systems capable of delivering hundreds of amps in demanding industrial environments.
- Design and develop Battery Management System (BMS) electronics for lithium-ion battery platforms.

- Develop and test battery monitoring circuits, including voltage, current, and temperature sensing systems.
- Develop power electronics and electrical architectures for high-performance battery systems.
- Design and conduct electrical testing and validation to confirm system performance and reliability.
- Build and evaluate prototypes and engineering test systems.
- Collaborate with firmware engineers to integrate BMS control systems and communication protocols.
- Work with mechanical and manufacturing teams to ensure designs are robust and manufacturable.
- Analyze test results and troubleshoot issues to improve battery safety, diagnostics, and performance.
- Support the full product development lifecycle—from concept and prototyping to production launch.

Minimum Qualifications

- Bachelor's degree in electrical engineering or related field
- Experience designing, testing, or debugging electronic circuits or electrical systems
- Familiarity with schematic capture, and electrical design tools
- Strong troubleshooting and analytical critical thinking skills
- Ability to collaborate effectively in cross-functional engineering teams

If you meet most of the qualifications but not all, we encourage you to apply.

Preferred Qualifications

- Experience with Battery Management Systems (BMS) or lithium-ion battery systems
- Experience with power electronics or high-current electrical systems
- Familiarity with embedded systems or hardware–firmware integration
- Experience supporting prototype builds, validation testing, or hardware debugging
- Exposure to industrial, automotive, robotics, or energy storage systems

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.