

Job Title:	Electrical Engineer	Approved:	03/04/2026
Job Classification:	Salary	FLSA Status:	Exempt
Department:	Engineering	Reports To:	Engineering Manager
Location:	Vista, CA		

The Role

As an Electrical Engineer, 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.

Essential Duties and Responsibilities

- 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.
- Perform other related duties as assigned.

Required Education and Skills:

- 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
- 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.