

Job Title:	Mechanical Engineer	Approved:	11/13/2025
Job Classification:	Salary	FLSA Status:	Exempt
Department:	Engineering	Reports To:	Engineering Manager
Location:	Vista, CA		

The Role:

The Mechanical Engineer is responsible for leading all aspects of battery system mechanical/electrical design and development including architecture, safety, structural, documentation, assembly, and testing.

Essential Duties and Responsibilities:

- Manage the development of new battery systems by ensuring appropriate coordination of multidisciplinary groups, including electrical/firmware engineering, mechanical engineering, drafting, production engineering, quality, and supply chain.
- Take ownership of all aspects of product development from initial customer and/or product requirements capture through release to production.
- Independently perform investigations to determine root cause which may result in recommendations for quality, and assembly improvements as well as rework to correct product conformance deficiencies.
- Assures system and product quality by designing testing methods; testing finished- product and system capabilities; confirming fabrication, assembly, and installation processes.
- Design and develop battery system solutions such as battery module architecture, BMS enclosures, load boxes, etc.
- Utilize CAD (SolidWorks) and other product design software in the development of new products.
- Lead the mechanical integration of cells, electromechanical components, hardware, and wire harness development.
- Evaluate and spec appropriate components to fulfill application needs in the most cost-effective manner.
- Building of prototypes and testing (in-house and field) of those prototypes.
- Statistical analysis of test data to arrive at appropriate final design adjustments.
- Participation in project schedule creation.
- Participation in brainstorm of best ideas and solutions.
- Providing clear, concise, accurate and timely verbal and written updates to project and department management.
- Participation in and running design reviews.
- Supporting our in-house assembly department from pre-pilot through production stabilization.
- Evaluate design/assembly approaches; select and implement the most cost-effective, time sensitive solution.
- Receives requests from Customer Service, Purchasing, Inspection and Production Teams to investigate problem issues and provides expert advice for improvements.

- Application of LEAN Six Sigma and 5S methodologies for continuous improvement of manufacturing as well as operation business processes.
- Domestic travel to commission and support new product sales / demos (up to 20%)
- Perform other related duties as assigned.

Required Education and Skills:

- Bachelor's degree in mechanical or equivalent.
- 5+ years of relevant engineering experience preferred.
- Working experience in Design or Manufacturing Engineering: 3+ years preferred.
- Familiarity with using SolidWorks in a business environment.
- Knowledge of high-volume manufacturing processes and/or automation.
- Ability to multi-task while shifting priorities on day-to-day basis.
- Demonstrated ability to own an assignment and see it through to completion.
- Comfortable working on cross-functional teams of mechanical, electrical and software engineers and able to collaborate effectively and efficiently.
- Proficient in Excel and basic mechanical/electrical calculations
- Must have an attitude of innovation and seek leadership responsibilities.
- Ability to read and understand engineering documentation, CAD files and schematics.
- Must be able to lift 50 pounds periodically throughout the workday.
- Must be able to travel domestically.

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.