

Job Title: Manufacturing Engineer
Department: Manufacturing Engineering
Reports To: Senior Director of Manufacturing and Manufacturing Engineering
FLSA Status: Exempt
Effective Date: August 10, 2017

Position Overview:

EnerDel designs, builds and manufactures lithium-ion energy storage solutions and battery systems with a focus on heavy duty transportation, on- and off-grid electrical, mass transit and task-oriented applications. The Manufacturing Engineer is responsible for concept, design and develop lean manufacturing cells and/or high volume assembly systems that are efficient and optimized to meet the defined internal metrics and customer requirements.

Essential Job Functions

- Build and promote the company's "team" philosophy and observe respect for the existing cultural boundaries
- Define product and process specifications
- Demonstrate and execute performance in best interest of EnerDel, stakeholders, and customers
- Design for manufacturing with built-in product error proofing
- Develop new designs and technology such that capability, cost, and quality satisfy customer requirements
- Ensure team's adherence to EnerDel's quality management system
- Establish and maintain good supplier/customer relations
- Establish test criteria and gauging for evaluation of specifications
- Follow design standards, guidelines, and best practices
- Lead peer reviews for Process Failure Mode Analysis (PFMEA)
- Manage cost tracking and comply to forecasted budgets
- Provide project financial estimates
- Responsible for organizing highly complex activities for the design, development, implementation, and maintenance of engineering projects
- Statistically evaluate data to insure both product and process conformance
- Perform other duties as assigned

Required Knowledge, Skills, & Abilities:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skills, and ability required.

- Preferred:
 - Bachelor's Degree in BSME, BSMET, BSEE, BSEET, or related area
 - 5-7 years manufacturing engineering experience in an automotive or related area
 - Intermediate to advanced skills with the: Internet, data entry, spreadsheets, and word processing, specifically with Microsoft Word and Excel;
 - Ability to "take ownership" and adapt to an ever-changing environment
 - Ability to adjust very quickly to take on new responsibilities as potential gaps are identified
 - Ability to be a self-starting hard worker
 - Problem solving and development skills
 - Working knowledge of Six Sigma or related area
 - Working knowledge of machine and tool design
 - Working knowledge of pneumatics, hydraulics and machine controls
 - Working Knowledge of Process Failure Mode Analysis (PFMEA), Control Plan, Standard Work Instruction, Machine Qualification

Supervisory Responsibilities: None.

This job description is intended to convey information essential to understanding the scope of the job and the general nature and level of work performed by job holders within this job. This job description is not intended to be an exhaustive list of qualifications, skills, efforts, duties, responsibilities or working conditions associated with the position.

Physical Requirements/Hazardous Working Conditions:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential work functions.

Physical Demands

- Standing
- Walking
- Sitting
- Lifting
- Carrying
- Pushing/Pulling
- Climbing
- Balancing
- Stooping
- Kneeling
- Reaching
- Handling
- Feeling
- Talking
- Eye/Hand/Foot Coordination
- Vibration
- Typing/Keyboarding

Vision/Sight/Hearing

- Vision-Far Acuity
- Vision-Near Acuity
- Vision-Depth Perception
- Vision-Peripheral
- Color Vision
- Listening/Hearing

Physical Strength

- Sedentary Work
- Light Work
- Medium Work
- Heavy Work
- Lifting up to 10 lbs.
- Lifting up to 25 lbs.
- Lifting up to 50 lbs.
- Lifting over 50 lbs.

Environmental Conditions

- Temperature Changes
- Infectious Disease
- Humid
- Noise

- Hazards
- Wet
- Hazardous Chemicals
- Blood/Body Fluids

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