

Job Description

Position Title: Senior Mechanical Engineer Date: January 2016
Department: Engineering Location: Woodridge, IL USA
Manager: Director, NPD Engineering - Americas

Company Overview

Inventus Power™, founded in 1967, is a leading global provider of high-performance rechargeable power solutions including custom battery packs, chargers & docking stations, power supplies and electromechanical assemblies for a wide variety of markets including commercial, industrial, military/government and medical.

With headquarters in Illinois and manufacturing facilities in the United States, Brazil, China, Malaysia and Mexico, Inventus Power™ combines decades of technology expertise with innovative and flexible engineering, testing, qualification and manufacturing capabilities to meet any power challenge.

Position Summary

The Senior Mechanical Engineer will be responsible for designing and conducting analysis to support development of battery packs and chargers. The Senior Engineer leads concept phase, design activities, reviews and reports design's progress. Assignments are broad in nature, requiring appreciable initiative, originality, ingenuity and excellent problem solving skills. The ideal candidate will have excellent analysis skills, advanced mechanical engineering experience and a great understanding of plastic injection molding.

Primary Responsibilities

- Must take complete ownership of the mechanical design for the project. This includes doing the complete mechanical design, generating 3D models and 2D drawings, assembly drawings, and BOM generation.
- Must be able to do full tolerance analysis using various tolerance schemes (worst case, RSS, etc.)
- Proficient in GD&T
- Must understand design consideration for various mechanical system integrity i.e. ultrasonic welding, snap fit, screws, drop test, shock, vibration, hematic seal, etc.
- Provide necessary sustaining support to existing products, and work in a cross-functional team environment to assure mechanical system level integration and design for manufacturability
- Be able to conduct Mechanical DFMEAs to ensure products conform to customer specifications and requirements

Primary Responsibilities (Cont.)

- Construct prototypes; evaluate and document their performance; identify possible improvements
- Explore new and existing materials and methods to solve design challenges
- Maintain an awareness of customer requirements and any complaints to identify any areas that may need development or improvement
- Be able to work with various design sites globally
- Prepare technical reports
- Establish a culture of learning, openness and accountability
- Serve as the leader, champion, and catalyst for teaching, training, and growing Lean principles, tools, and techniques in the engineering organization and manufacturing
- Performs any additional related duties as assigned

Experience & Education/Training Requirements

- Minimum of Bachelor in Mechanical Engineering with more than 5 years of experience in electronics manufacturing in the consumer, telecom, automotive, and/or military Industries (Masters preferred)
- Very strong mechanical design aptitude and technical experience required with plastic injection molding parts
- Experience with 3D CAD modeling systems (i.e. SolidWorks, ProEngineer) required (Solidworks preferred)
- Preferred experience with structural FEA and thermal FEA.
- Strong knowledge of DFM and DFA design principles
- Strong quantitative, design, analytical, and problem solving skills required
- Strong verbal and written communication skills required
- Strong knowledge of Microsoft Office products required
- As we are an ITAR facility, we hire only U. S. persons who are defined as U. S. citizens or green card holders

Important Information

The above statements are intended to describe the general nature and level of work being performed by people assigned to this classification. They are not to be construed as an exhaustive list of all responsibilities, duties, and skills required of employees so classified. All employees may be required to perform duties outside of their normal responsibilities from time to time, as needed.

This job description will be reviewed periodically and is subject to change as needed due to business necessity.