

BOLLINGER MOTORS

High Voltage Battery DRE

Bollinger Motors is looking for a full-time High Voltage Battery DRE to work on the design and integration of an all-electric vehicle with our team of engineers in the Detroit, MI area. In this role, you will lead the High Voltage Battery engineering team to design and develop the Battery components/systems from initial concept to vehicle launch. Job duties to be performed in the Detroit, MI area. Compensation based on experience and abilities.

Essential Duties & Responsibilities

- Lead the design, development, and integration of the entire High Voltage battery pack, overseeing the development of the Enclosure, module integration, Bus bars, HV power distribution, LV harnesses, and thermal management
- Provide battery module layout proposals based for future programs, providing feedback to the rest of the engineering team for vehicle integration improvements
- Lead the analysis and selection of battery modules for future programs
- Lead development of new design concepts from idea to implementation on production vehicles
- Lead FMEA and Quality assurance processes
- Apply knowledge of engineering principles and practices to assigned tasks in the design, development, analysis and release of products and subsystems
- Verify design using analysis and or functional testing, interpret results, drive decisions, and assess risk
- Responsible for accuracy of detail drawings directly or as collaboration with designers
- Identify and assess possible suppliers for production of products
- Work with other functional areas within the vehicle development team to ensure that all vehicle interfaces are defined and supported
- Create and maintain component and system DVP&R
- Create and maintain system EBOM
- Support vehicle testing, rig testing, and Hardware-In-the-Loop simulations to demonstrate system functionality
- Manage system quality, cost, and timing to ensure high quality program deliverables
- Support prototype and low volume HV Battery pack builds as needed.

Education, Skills and Knowledge

- Bachelor's Degree in, Mechanical Engineering, Electrical Engineering, or related degree
- Working experience with EV technology
- 5+ years of design and development experience in high voltage (350V+) battery packs
- Experience with FMEA and related quality assurance processes
- Experience with regulatory compliance testing
- Substantial background in designing complex systems
- Working knowledge of Cad and simulation tools
- PLP/GD&T, dimensional tolerance stack-ups and experience with engineering standards required
- Ability to contribute across all systems within the battery pack by using knowledge in Mechanical Structures, HV electronics, LV electronics, materials, and thermal disciplines
- Creative, innovative, decisive, and prone to action
- Excellent verbal and written communication skills
- Outstanding leadership and people skills, able to work in a team environment
- Participation in SAE Collegiate Design Series highly preferred
- Microsoft software including Excel, Word, Outlook, and PowerPoint

Email resume to careers@bollingermotors.com

ALL APPLICANTS MUST BE AUTHORIZED TO WORK IN THE UNITED STATES

14925 W 11 MILE ROAD, OAK PARK, MI 48237