

# BOLLINGER MOTORS

## **Electrical Engineer – HV DRE**

Bollinger Motors is seeking a full-time Engineer to work as the Design Release Engineer (DRE) for the high voltage electrical system in the Bollinger Motors B1 and B2 vehicles. In this role, you will work with the electrical engineering team to specify, document, design, and validate the power electronics, high voltage electrical distribution, and power management systems. Compensation based on experience and abilities. Job duties to be performed in the Detroit, MI area.

## **Essential Duties & Responsibilities**

- Development of electric vehicle integration strategy for high voltage electrical systems
- Define energy conversion, power management, and high voltage harnessing system requirements and architecture
- Lead the component specification and design for the energy conversion, power management, and high voltage harnessing systems including on-board chargers, DCDC converters, DCAC inverters, traction inverters, power distribution boxes, high voltage cabling etc...
- Support harnessing/EDS team in development and release of high voltage harnessing system
- Work closely with battery, controls, thermal, and drivetrain teams to study design integration impacts of architecture and component design decisions
- Work with suppliers to ensure that component specifications and timing expectations are met
- Design, build, and use test bench setups for system testing and validation
- Support hands-on integration of the high voltage electrical system in development vehicle builds
- Troubleshoot and fix problems from concept creation to launch of vehicles
- Build internal hardware and software tools to improve design and manufacturing quality and efficiency
- Process and analyze test data and provide analysis, insight, and feedback for development
- Assist in vehicle system modeling and simulation

## **Education, Skills and Knowledge**

- Bachelor's degree in Electrical Engineering, Mechanical Engineering, Masters degree in Engineering is a plus
- Previous high voltage system or component design and design release experience required.
- Experience working in structured engineering process including definition of requirements and objective function, concept creation, market analysis for components, analyzing options, and making final engineering decisions.
- 2+ years relevant electric or hybrid vehicle work experience required.
- Experience with high voltage wiring harness design and design for manufacturing required.
- Experience with power electronics component design is a plus.
- Experience working in Agile project management environment a plus.

Email resume to [careers@bollingermotors.com](mailto:careers@bollingermotors.com)

**ALL APPLICANTS MUST BE AUTHORIZED TO WORK IN THE UNITED STATES**