BOLLINGER MOTORS

Mechanical Engineer – Drivetrain Design Release Engineer

Bollinger Motors is looking for a full-time Drivetrain Engineer 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 design and develop electric motors, inverters, and gearbox 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

- Development of High voltage electric motor, inverter system and multispeed gear reduction unit
- Development of gear reduction drop spindle unit
- 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 vehicle prototype builds as needed.

Education, Skills and Knowledge

- Bachelor's Degree in, Mechanical Engineering, Aerospace Engineering or related degree
- 5+ years relevant direct automotive chassis work experience required
- Working experience with EV technology
- 2+ years design or development experience in chassis or powertrain controls
- Experience with FMEA and related quality assurance processes
- Familiarity with High voltage inverter and motor technology
- Working experience developing gear reductions
- Working experience developing braking systems
- Working experience developing High voltage electric motors
- Experience with objective testing of vehicles for user inputs, powertrain inputs, and braking.
- Experience with regulatory compliance testing
- Substantial background in designing complex parts required
- Working knowledge of Solidworks and Solidworks simulation tools
- PLP/GD&T, dimensional tolerance stack-ups and experience with engineering standards required
- Contribute in all vehicle systems by using knowledge in thermal, materials, and hydraulic discipline required
- 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