

# **BOLLINGER MOTORS**

## **CAE Engineer**

Bollinger Motors is looking for a full-time CAE Engineer to work on the safety and integration of the Bollinger Motors B1 and B2 all-electric vehicles with our team of engineers in the Detroit, MI area. CAE Engineer creates full vehicle crash finite element models using ANSA and will perform analyzes using LS-DYNA software to assess vehicle crashworthiness based on regulatory and third-party assessment criteria. Responsibilities include but not limited to: Analyzes results to develop design solutions to meet vehicle safety requirements and will communicate and present results to various engineering organizations. Job duties to be performed in the Detroit, MI area. Compensation based on experience and abilities.

## **Essential Duties & Responsibilities**

- Define and document system, sub-system, and component functional and performance requirements
- Responsible for design/development of Automotive Occupant Safety Systems. Perform testing and Finite Element Analysis (FEA) for products such as airbag and seatbelt systems to meet safety regulations (FMVSS 208, 214, and 226). Study customer requirements and safety regulations and perform crash analysis for Occupant Safety Systems. generate FEA models utilizing standard design principles.
- Perform Finite Element Analysis (FEA) for Automotive Passive Safety Systems products such as airbag and seatbelt systems to meet safety regulations, such as FMVSS (208, 214, and 226).
- Study customer requirements and safety regulations (FMVSS – 208, 214, and 226) and performed crash analysis for Passive Safety Systems.
- Construct FEA models utilizing standard design principles.
- Conduct sub-systems level analysis to evaluate structural integrity and produce correlated model to dynamic test results.
- Responsible for systems fine tuning and design optimization using simulation results and their correlation with testing data.
- Perform a feasibility study for new concept designs using FEA simulation.
- Provide FEA support for engineering assessments and cost reduction for new car programs.
- Attended design review meetings to discuss FEA results and solutions to improve the design, assembly, production, and safety.
- Develop analysis methods to advance the use of CAE in product design and development.
- Strong Knowledge in the following FEA software (LS-DYNA, HyperWorks).

## **Education, Skills and Knowledge**

- Bachelor of Science in Engineering and 4+ years of CAE experience.
- Must demonstrate working experience with FEA codes (LS-DYNA, HyperWorks).
- Understanding government standards as they apply to the automotive safety business.
- Demonstrate high levels of interpersonal communication skills; fluent in writing and speaking English.
- Foster teamwork and cooperation.
- Demonstrate strong analytical thinking and problem solving.
- Exhibit high levels of self-control, self-confidence, and flexibility.

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

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

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