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**POSITION:** Mechanical Engineer  
**COMPENSATION:** Non-Exempt (TBD)  
**LOCATION:** Houghton, MI  
**REPORTS TO:** Program Manager  
**PREPARED BY:** Human Resources / Program Manager

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GS Engineering, Inc. (GSE) [www.gseengineering.com](http://www.gseengineering.com) is a growing, agile small business delivering advanced engineering solutions to military and commercial transportation markets in areas including concept design & analysis, material R&D, prototyping, and vehicle testing services.

**Job Summary:**

The Mechanical Engineer will have a strong impact on design & analysis services, vehicle testing, prototype development, & light weight material R&D produced by GS Engineering. The creativity of the individual must lend itself to the needs of the customer by developing systems and components that help solve problems and are a value-added for our customer. The Mechanical Engineer researches, plans, designs, and develops mechanical products and systems such as instruments, components, sub-assemblies, mechanical hardware, brackets, linkages, kinematic systems and other devices. Uses advanced software tools to develop product specifications and test procedures. Develops practical economic solutions that meet performance, cost, and schedule requirements within program constraints.

**Attributes**

The Mechanical Engineer must be a professional, have good organizational skills, pay attention to documentation, and be a good communicator.

The individual must also have the following qualities:

- Ability to solve practical problems and deal with a variety of variables and requirements in situations where only limited standardization exists.
- Must be able to recognize when a course of action is no longer viable and steer teams to avoid pitfalls as required.
- Self-motivated and capable of identifying areas where process improvements are needed.
- Flexible and maintain a positive attitude in high-pressure situations.
- Willing to change focus quickly in order to meet business needs.
- The individual will provide “Hands on” configuration and documentation on all assigned prototype activity.
- U.S. Citizenship required
- Upon hiring, candidate must be able to attain a security clearance from Dept of Defense

**Principal Accountabilities**

- Able to work in a fast-paced environment
- Provides input, analysis, and recommendations to senior engineers or project leaders for the development of solutions to technical problems or independently solves technical problems of moderate complexity ensuring compliance with requirements.
- Performs technical analysis, testing, calculations, and evaluation of results to solve moderately complex engineering problems using specialized equipment and/or by creating models or simulations.
- Analyzes and interprets design specifications, drawings, documentation, and/or test results to ensure technical designs comply with applicable engineering standards, military specifications, and product requirements.
- Provides input to project leaders for the development of project plans, schedules, and budgets.
- Experience in FEA and a variety of structural materials is a plus.



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- Develops and maintains effective relationships with internal and external customers to solve technical problems of moderate complexity.
- Hands-on experience is a must
- Maintains up-to-date knowledge of relevant engineering discipline(s), industry practices, trends, and applications.
- Maintains a safe work environment and ensures compliance with safety objectives and policies.

#### **Communication Skills**

Must possess good mathematical skills, presentation skills, and the ability to communicate orally and in writing. Develops and writes technical documentation, makes revisions to existing documentation, and provides input to technical papers or presentations.

#### **Education/Experience Requirements**

- BSME degree and/or equivalent
- Min. 2+ years design of mechanical systems, preferably in Heavy Truck, Automotive, or equivalent
- 3D CAD Drafting and/or equivalent (prefer Pro-E/Wildfire and/or CATIA)
- Use of GD&T a plus
- Familiar with metal fabrication techniques

#### **Working Conditions**

- Periodic overnight Travel Required
- Ability to work extended hours as business needs dictate
- Office, shop floor, prototype build area, and customer job sites

GS Engineering is an Equal Opportunity Employer

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This job description in no way states or implies that these are the only duties to be performed by the employee(s) incumbent in this position. Employee(s) will be required to follow any other job-related instructions and to perform any other job-related duties requested by any person authorized to give instructions or assignments. A review of this position has excluded the marginal functions of the position that are incidental to the performance of fundamental job duties. All duties and responsibilities are essential job functions and requirements and are subject to possible modification to reasonably accommodate individuals with disabilities. To perform this job successfully, the incumbent(s) will possess the skills, aptitudes, and abilities to perform each duty proficiently. Some requirements may exclude individuals who pose a direct threat or significant risk to the health or safety of themselves or others. The requirements listed in this document are the minimum levels of knowledge, skills, or abilities. This document does not create an employment contract, implied or otherwise, other than an "at will" relationship.

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