



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

GS Engineering, Inc. (GSE) 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 Electrical 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 Electrical Engineer researches, plans, designs, and develops Electrical/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 Electrical 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

- Provides input to project leaders for the development of project plans, schedules, and budgets.
- Creates awareness of GSE services and capitalize on 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.
- Integration of embedded control system firmware for hydraulic and/or motor control systems
- CANBUS experience desired
- 3D CAD experience (prefer Pro-E / Wildfire) a plus.
- Vehicle control architecture



- Microprocessor programming & interfacing
- Circuit board software and Programming BASIC, C++
- Working knowledge of power electronics, PLC hardware, AC and DC electric motors and controllers.
- Good mechanical aptitude
- Able to work in a fast-paced environment
- 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 as well as in writing. Develops and writes technical documentation, makes revisions to existing documentation, and provides input to technical papers or presentations.

Education/Experience Requirements

- BSEE degree and/or equivalent
- Controls focus, with eight (8) years in electric machine design, power conversion systems, electric machine control and electric energy storage.
- 3D CAD experience (prefer Pro-E / Wildfire) Use of GD&T a plus

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

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.
