



**Title:** Mechanical Engineer

**Classification:** Salary - Exempt

**Reports to:** Engineering Manager

In the performance of respective tasks and duties, all HART employees are expected to perform his/her work in accordance with the HART values: Integrity, Quality, Customer-Employee-Family Focus, Continuous Improvement, Accountability, and Safety.

### **Summary/Objective**

A mechanical Engineer generates engineering drawings according to accepted engineering practices, HART company standards, and applicable regulatory codes.

### **Essential Functions**

Develops technical specifications, design calculations, and analytical solutions. Provides creative and innovative solutions to meet design specifications and solves problems with new and existing designs. Analyzes and evaluates system designs using techniques such as advanced calculation, 3D solid modeling, FEA, and physical testing. Develops proposals to include scope, schedule, and cost estimates. Provides on-site support and troubleshooting both in-house and at client sites.

### **Competencies**

- Project management skills and a commitment to meeting expectations
- Background in custom design and build of machines and automated systems
- Experience in product development, product design, and validation to support prototyping of one-off designs and solutions utilizing cross-functional teams
- Manufacturing knowledge to support the design of manufacturability into product development and providing accurate bills of material
- Skills in mechanical design, electromechanical design, pneumatics, hydraulics, material & component selection, feasibility, prototyping, and testing
- Ability to determine product and project specifications
- Proficient in the use of engineering calculations to drive and support design decisions
- Strong background in manufacturing processes
- Proficient with SolidWorks or other parametric modeling software and AutoCAD
- Willingness to travel to customer and supplier locations



- Ability to support and assist sales with supporting documentation and details utilized to produce competitive quotes
- Ability to communicate effectively at all levels of an organization

### **Work Environment**

Work is generally conducted in a clean, well-lit temperature-controlled environment. Occasional time will need to be spent on the assembly floor evaluating a design, conducting product testing, or troubleshooting. During this time, the engineer will be exposed to moving parts and loud noises. Appropriate safety gear is required.

### **Position Type/Expected Hours of Work**

Full-time, Monday through Friday 7 am to 4 pm though occasional evening or weekend work may be required.

### **Travel**

Occasional travel may be required to support sales, field service, or other departments as needed -10%.

### **Required Education and Experience**

- A degree in engineering is required.
- 3 or more years in a custom equipment manufacturing environment
- Familiarity with design for regulatory compliance and safety practices
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### **Additional Eligibility Qualification**

Candidates must be capable of:

- Providing leadership in engineering and manufacturing
- Incorporate both functionalities and cost in designs
- Promoting continuous improvement in the engineering department by supporting innovation and creativity
- Managing suppliers with respect to cost and expectations when relative
- Promoting building relationships throughout the company, with customers and suppliers
- Taking a hands-on, get-it-done attitude

### **AAP/EEO Statement**

HART Design & Manufacturing is an Equal Employment Opportunity Employer. Women, minorities, veterans, and individuals with disabilities as well as other qualified individuals are encouraged to apply. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, or other protected class status.



### **Other Duties**

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.