763-546-5998
Fax 763-546-5214

13300 6th Avenue North
Plymouth, MN 55441

Mechanical Design Engineer

Are you a well-organized, mechanically inclined, problem-solving Mechanical Design Engineer with experience in a manufacturing environment? Then consider applying for the Mechanical Engineer position with Electro-Mechanical Industries, Inc. (EMI), a family owned, custom manufacturer of electrical power distribution equipment located in Plymouth, MN. The company, with over 45 years of steady growth and product innovation, provides products and services to commercial and industrial customers throughout the US and Canada.

The Mechanical Engineer will design, develop, optimize and problem solve our custom power distribution solutions within our engineering/manufacturing company. Candidates must have expertise across multiple technologies and will have a demonstrated ability to effectively interface with a broad range of internal and external team members. This person will report to the Engineering Lead in the form of broad and specific project objectives, associated documentation, and daily accountability meetings.

Essential Job Duties:

- The primary function of the Mechanical Engineer is to design and develop controlled (released) drawings as well as the associated documentation and specifications for all EMI new and existing projects.
- Efficiently and effectively design and create 3-D models of custom parts and products for electrical distribution equipment to comply with industry standards using Inventor CAD software.
- Produce manufacturing drawings from 3-D models using Inventor CAD software.
- Program equipment for metal fabrication using Radan Post Processing software.
- Collaborate with other project members in a consolidated effort to meet project estimated costs, schedules and quality requirements to achieve total Customer Satisfaction.
- Help develop, generate and update the technical and manufacturing standards of current and new products to achieve higher productivity and lower costs.
- Respond to Manufacturing Operations to resolve daily design requests/questions.
- Maintain accurate and up to date project designs with detailed information about all projects.
- Specify material requirements and create accurate BOM’s for purchasing, engineering, and manufacturing purposes.

Qualifications/Education/Experience:

- Candidates must have a High School diploma/GED or equivalent.
- Associate degree in Mechanical Design or B.S. degree in Mechanical Engineering is preferred.
- 2+ years previous experience in a custom sheet metal fabrication job shop is required.
- Experience in the electrical distribution industry is preferred.
- 2+ years of experience in a variety of custom manufacturing and staff assignments is preferred.
- Technology requirements: Working knowledge of 3D modeling software (Inventor preferred), Radan, AutoCAD and use of ERP computer system (Visual preferred).

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Competencies:

- Ability to understand the technical needs of the clients through conversational interaction with sales reps, project managers, engineering, and production personnel.
- Knowledge of compliance standards and NRTC procedure compliance.
- Knowledge of document control preferred.
- Ability to read, analyze and interpret blueprints and schematics.
- Able to grasp new concepts quickly and efficiently.
- Ability to work independently as well as with others.
- Detail oriented with the ability to create and record data.
- Ability to multi-task in an environment of competing priorities.
- Ability to interface with all departments within the company.
- Ability to effectively communicate, in English, both verbally and in writing.
- Highly organized.

Work environment: The majority of the work is performed primarily in an office setting, with minimal noise. Up to 30% time may be spent on the manufacturing production floor with typical manufacturing noise.

Physical Requirements:

- Must be comfortable working in a manufacturing, union environment.
- Regularly required to sit, stand, walk, bend, reach, and move about the facility.
- Vision and hearing are required.
- Must be able to lift up to 40 lbs.
- Must be able to climb, stretch and maneuver on ladders.

Work hours: This is a full-time, exempt position working typical office hours, Monday- Friday (start time flexible between 6:00-7:30 am).

Salary and Benefits: The base salary range for this position is $60-$70k per year. EMI offers employee benefits including medical, dental, life insurance, long term disability, 401k & matching, voluntary Aflac benefits, paid vacation, employee safe and sick time (ESST), and paid holidays.

To apply for this position, send your resume and salary requirements to: Human Resources @ careers@e-m-i.com. EMI is an equal opportunity employer.