



13300 6th Avenue North
Plymouth, MN 55441

Mechanical Design Engineer

Are you a well-organized, mechanically inclined, problem solving Mechanical Engineer with experience in a manufacturing environment? Then consider applying for the Mechanical Design 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 40 years of steady growth and product innovation, provides products and services to commercial and industrial customers throughout the US and Canada.

The Mechanical Design Engineer will design, develop, optimize and problem solve our custom power distribution solutions working closely with Sales, Project Managers and Operations as well as providing leadership to the mechanical engineering team and responsible for on-site field measuring for custom EMI products. 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 Engineering Manager.

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.
- Provide daily leadership, guidance and communication to the mechanical team in regard to project prioritization, staffing assignments and resource allocation.
- 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 in an effort 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 an accurate and up to date customer/project account list with detailed information about all projects.
- Specify material requirements and create accurate BOM's for purchasing, engineering and manufacturing purposes.
- Assist with on site field measurements for custom electrical distribution equipment solutions.



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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.
- 8+ years previous experience in a custom metal fabrication job shop or the electrical distribution industry is preferred.
- 10+ years of experience in a variety of 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).

Competencies:

- Ability to understand the technical needs of the clients through conversational interaction and on site visits with sales reps, engineering, customers and production personnel.
- Detail oriented with the ability to create and record data.
- Knowledge of compliance standards and NRTL procedure compliance.
- Knowledge of document control preferred.
- Ability to read, analyze and interpret blueprints and schematics.
- Ability to motivate and encourage teams to perform.
- Collaborative and humble leadership style with the ability to strive for continuous improvement.
- Able to grasp new concepts quickly and efficiently.
- Ability to work independently as well as with others.
- 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.
- Mechanically inclined with the ability to use hand power tools as well as the ability to take accurate measurements.

Work environment: The majority of the work is performed primarily in an office setting, with minimal noise. Up to 20% time may be spent on the manufacturing production floor with typical manufacturing noise. Up to 5% time may be spent on at customers site for on site measurements.

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 50 lbs.
- Must be able to climb, stretch and maneuver on ladders.

763-546-5998
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Work hours: This is a full time, exempt position working typical office hours, Monday- Friday (start time flexible between 6-8 am).

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.