

Job Posting – Mechanical Engineer

We currently have an immediate opening for a Mechanical Engineer. This position will provide new product engineering services, surveys, analysis, and recommendations for Mack Boring and Parts Co. This position also reviews cross functional processes and quality issues and provides solutions. Employee must effectively interact and maintain excellent relationships with all levels of staff, our vendors and customers.

MAJOR DUTIES & RESPONSIBILITIES

- Research, analyze and creatively design new products to meet customer needs and study specifications, manuals, and other data to evaluate the feasibility, cost, and maintenance requirements of these designs or applications.
- Assist in the preparation of production cost quotations; by aiding with estimates of equipment, material and labor costs.
- Skillfully and tactfully negotiate project scope of work requirements and quality issues, with all parties.
- Work extremely well coordinating customer needs with sales, production and materials management staff; understanding the customer's requirements, contributing technical expertise, commercial acumen, and assist in closing the sale and maintaining positive relationships with clients.
- Specify system components or direct modification of products to ensure conformance with engineering design and performance specifications.
- Develop the structural design of products; prepare drawings using computer-assisted design/drafting equipment and appropriate software.
- Conduct trouble shooting and root cause analysis, develop product quality metrics and create and update written quality systems and procedures.
- Write performance requirements for product development or engineering projects.
- Conduct research that tests and analyzes the feasibility, design, operation and performance of equipment, components and systems.
- In a team environment, confer with engineers and other personnel to implement improved operating procedures, bills of material, resolve system malfunctions, and provide technical feedback.
- Support shop floor staff by trouble-shooting process and/or quality issues and continually review and optimize existing manufacturing processes to increase productivity and quality utilizing Lean solutions
- Design test control apparatus and equipment and develop procedures for testing products and devise processes for assuring quality production
- Investigate equipment failures and difficulties, diagnose faulty operation, and recommend design modifications to eliminate machine or system malfunctions.
- Organizing the archive of engineering specifications, drawings, test results and customer specifications and maintain traceability of documents, according to discipline and itemization criteria, by proper filing and indexing.

REQUIREMENTS

- BS Mechanical Engineering, ME a plus, with core knowledge of structure, fluids, heat transfer; and engines

- One to three years engineering design and applications experience in a lean manufacturing environment
- Comprehensive knowledge of mechanical design standards and codes, ISO 9000 regulations; plus proven 2D/3D computer abilities, knowledge of SolidWorks preferred.
- Experience in a diesel engine industrial and/or marine environment preferred.