



Mechanical Design Engineer
Job Description

Summary:

Greystone has an immediate new position with our **North Providence, Rhode Island** location for a Mechanical Design Engineer. This is a unique position where projects will be worked on from concept through completion.

Reports to: Engineering Manager

Responsibilities

- Develop creative design concepts to meet customer requirements
- Collaborate with engineering, operations, automation, machinist/fabricator, management and sales to identify opportunities to improve existing designs or generate new designs for new product development
- Perform process feasibility assessments with the sales teams and management during the quoting process of new business
- Understand and perform the complete engineering design process
- Work individually or with multidisciplinary engineering teams to solve complex problems
- Design prototype models to test design prior to full scale models
- Model concepts and design in Autodesk Inventor
- Create component and assembly drawings for the fabrication team to build and construct design
- Basic machining and fabrication (lathes, saws, milling, casting and welding)
- Generate BOM, source and purchase materials for design builds
- Present designs and concepts to management and ownership team
- Troubleshoot processes and systems and identify corrective actions
- Some travel (<5%) required

Required Skills

- Strong understanding of fluid dynamics, material science, kinematics and thermal dynamics
- Strong technical communication skills as well as technical communication to a non-technical audience
- Ability to understand customer specification and design prints.
- 3D modeling and simulation using a CAD software, using Autodesk Inventor a plus
- Ability to create engineering drawings using proper GD&T
- Exceptional mechanical aptitude and creative thinking
- Strong analytical and problem-solving

Desired Skills

- Basic knowledge of chemistry and electrical engineering, FEA and automation design
- Basic machining and fabrication experience using manual lathes, milling machines and hand tools

Job Qualifications

- BS or MS in Mechanical Engineering
- 1-3 Years of Experience in original concept designing