

Vacuum Process Technology, located in Plymouth, Massachusetts, is a leader in the development and manufacturing of turnkey thin-film deposition systems, custom designed components and thin-film processes. Our long history in the precision optics industry and our growth in renewable energy creation and storage offer excellent opportunities to strong individuals seeking an exciting work environment. VPT has a culture of teamwork which generates continuous innovations.

Mechanical Engineering Manager

Job Summary:

The Mechanical Engineering Manager will provide hands-on leadership and direction to the Company's Mechanical Engineering group. The successful candidate will join a growing team in a fast paced environment developing custom high-tech machinery for the vacuum based thin-film coating industry. They will supervise the organization and maintenance of new and existing mechanical designs. They will manage design documentation, support internal resources such as manufacturing and assembly, and interface with Electrical and Process Engineering. They will also provide Operations and Project Management with direction by identifying relevant technologies, clearly understanding the technology development risks, and implementing new technologies to satisfy design requirements. Responsibilities will also include solid model design, schematic capture, support for fabrication of designs and support of system assembly and integration.

Job Description:

The Mechanical Engineering Manager will perform all or some of the following key tasks:

- Model and Design mechanical components, sub-assemblies and systems in Solid Works
- Develop schematic diagrams in AutoCAD
- Produce Bills of Material of internally developed and off-the-shelf components
- Component selection process through online means or direct interaction with suppliers
- Work with Project Management and Purchasing on technical decisions for fabrication of design components
- Write clear, concise and thorough test procedures, technical specifications and manuals
- Work closely with Electrical and Process Engineering during the product specification review and design process

Minimum Requirements / Knowledge / Skill for Mechanical Engineering Manager Position

- 4+ years Engineering Management Experience
- Knowledge and Experience with Project and Resource Scheduling
- 10+ years Mechanical Design Experience
- Knowledge and Experience in Machine Design, Tooling Design
- Experience with Pneumatics, Hydraulics, and Motion Control
- Strong working knowledge and experience using Solid Works
- Working knowledge of fabrication and machining equipment capabilities
- Knowledge and Experience in stress analysis and thermodynamics required
- Working Knowledge of AutoCAD required
- Experience with FEA software is a plus
- Working Knowledge of standard Microsoft Office applications
- Familiarity with design analysis and simulation tools
- Excellent written and verbal communication skills
- Familiarity with regulatory requirements, such as: NEC, UL, and CE
- Periodic Travel Required

Minimum Education Requirements / Certification / Licensure for Mechanical Engineering Manager Position

- BS in Mechanical Engineering or Related Discipline
- MS in Engineering Preferred
- Trained or Certified in Machinery Safety Standards a Plus

Human Resources
Vacuum Process Technology
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