

Mechanical Design Engineer (Vacuum Systems)

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Company: Engage Partners Inc.

Location: Longmont

Category: other-general

Mechanical Design Engineer (Vacuum Systems)

Full-time position in Longmont, Colorado

Compensation: Base Salary + Bonus + Profit Sharing + Benefits

Relocation assistance available *(if needed)*

Summary

██████████ Mechanical Design Engineer, Vacuum Systems you will use your advanced knowledge of thin film deposition systems to drive innovation and continuous improvement for our vacuum process equipment. You will interface and collaborate closely with other team members and our departments as required to drive product development and product improvement activities to completion. Vacuum deposition system experience is required. This position is required to work on-site.

About Us

██████████ m deposition systems allow our customers to apply functional, durable, and high-performance coatings and finishes on a broad range of consumer and industrial products.

Primary Responsibilities

██████████
Develop and execute mechanical designs for complex vacuum deposition systems and subsystems.

Perform analysis as necessary to validate design concepts, prepare and perform design reviews with a focus on Design for Manufacturing and Assembly (DFMA).

Design machine parts and assemblies using SolidWorks, SolidWorks PDM and our ERP system.

Prepare assembly and detailed drawings utilizing GD&T.

Collaborate with purchasing to qualify vendors for fabrication and sourcing of parts and components.

Drive to established budgets and timelines relative to project tasks. Understands system cost/quality/time considerations and works to present tradeoffs and support decision-making activities.

Work on shop floor to resolve design conflicts and proactively identify improvements for manufacturing cost and ease of assembly.

Requirements

Experience in designing vacuum deposition systems for functional/performance coatings is required.

Strong understanding of the design and/or integration of deposition sources like Magnetron Sputter Cathodes (DC, pulsed DC, balanced or unbalanced, HIPIMS) and cathodic arc deposition.

Experience with the design of multi rotation high temperature turntables for batch deposition systems preferred.

Must have a proven record of developing designs from concept to product commercialization.

Proficiency in SolidWorks.

Finite Element Analysis (FEA) is necessary, thermal modeling ability is desirable.

Experience with the SolidWorks Simulation package is preferred.

Experience with pneumatics, drive systems, motion and control systems, heat transfer, fixturing is preferred.

Project management experience is a plus.

Strong problem-solving and root cause analysis skills.

Education and Experience

Bachelor's Degree in Mechanical Engineering or higher.

10+ years of experience.

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