

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 consumer electronics devices offer excellent opportunities to strong individuals seeking an exciting work environment. VPT has a culture of teamwork which generates continuous innovations.

Thin-Film Engineer

Job Summary:

VPT is seeking several full-time Thin-Film Engineers to join a growing team in a fast paced environment developing optic and photovoltaic applications utilizing VPT's vacuum based thin-film coating machines. The successful candidate will have experience with PVD deposition equipment, techniques, and thin-film materials. Responsibilities will include process development, operation of coating equipment and interfacing with hardware and software design teams as part of the coating machine development and production process.

Job Description:

The Thin-Film Engineer will perform all or some of the following key tasks:

- Work as part of the VPT R&D team to develop turn-key solutions for a wide range of thin-film coating applications
- Design, develop and review customer coating requirements for qualification of VPT produced thin-film coating machines
- Work closely with Mechanical and Controls Engineering during product specification and design, and with the Assembly team during systems integration and site installation
- Identify opportunities for improvement of the VPT coating machine's user interface and maintenance of production coating equipment
- Perform functional test of controls for VPT's vacuum based coating systems
- Training of technicians, operators and other appropriate personal on VPT equipment
- Support customers on-site and remotely, both Domestically and Internationally

Minimum Requirements / Knowledge / Skill for Thin-Film Engineer Position

- Minimum of 5 Years Thin-Film Related Experience
- Strong Knowledge in PVD Deposition Equipment, Techniques, and Thin-Film Materials (Dielectrics, Metals, etc)
- Experience with Thin-Film Design Software (ex. OptiLayer, FilmStar, Macleod, TFCalc)
- Hands-on experience with Industrial Control Systems and Instrumentation
- Experience with primary methods for optical coatings applications, including E-Beam evaporation, ION-Assisted coatings, Pulsed DC Reactive Sputtering
- Experience with RF Ionization Sources preferred
- Working Knowledge of standard Microsoft Office applications
- Project Management skills are a plus
- Excellent written and verbal communication skills
- Periodic Travel Required

Minimum Education Requirements / Certification / Licensure for Thin-Film Engineer Position

- BS Material Science, Optics, Physics, Chemistry or Related Discipline
- MS in Engineering Preferred

Human Resources
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