

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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