

Senior Process Applications Engineer - Systems

Overview

Candidate will be primarily responsible for optical thin film design, process development and process qualifications on ion beam deposition systems. Activities will include: process tuning and qualification of new products, optical interference thin film filter design, customer sample demonstrations, sales support, investigation of new hardware, writing/generation of test matrices; customer reports, application notes, technical presentations, operations and troubleshooting of vacuum systems.

Responsibilities

- Develop and demonstrate thin film deposition and etch processes.
- Design, optimize and develop process recipes for optical interference filters such as DWDM, Bandpass and notch filters using discrete or graded index structures.
- Conduct process tuning and qualifications of the SPECTOR IBD systems according to Veeco/customer specifications.
- Participate in developing new vacuum deposition and related technologies.
- Analyze test results, write reports and application notes on process development and/or customer demonstrations.
- Maintain and update worldwide process applications and tool qualification schedules.
- Operate, troubleshoot, maintain and repair process equipment.
- Operate key metrology equipment in support of process efforts.
- Provide technical guidance to customers related to process troubleshooting and input to marketing on recommended tool configurations and enhancements.
- Occasionally travel to customer sites for presentations, process development, troubleshooting, process qualifications and other sales supporting roles.

Qualifications

- Master of Science degree with 5+ years related industry experience or BS with 10+ years related industry experience. Degree must be in materials science, physics or other related field.
- Expertise in thin film interference filter design and process development on vacuum equipment.
- Experience with the following metrology equipment is also preferred: Spectrophotometers, Surface Profilers, Ellipsometry, in-situ optical endpoint detection.
- Experience with Ion Source Technology and Ion Beam Deposition of thin films is required. SPECTOR IBD system experience a plus.
- Experience with ebeam, IAD, magnetron or PECVD deposition a plus
- Experience with Essential Macleod, TFCalc or similar thin film design software is required.
- Demonstrated writing skills in the form of formal standard procedures, technical papers, presentations, applications notes, etc.
- Proficiency in data analysis and statistical design of experiments.
- Must possess excellent communications skills with ability to speak with clarity and interface effectively with customer technical staff and co-workers.
- Must be able to travel up to 33%, including international.

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