

Job Description – Systems Engineer

Responsibilities:

- Applications lab support: maintain and enhance deposition and analytical tools at in-house lab, to meet customer needs and internal R&D goals.
- Deposition services: deposit thin films of various materials, using multiple PVD techniques, for deposition services customers. Characterize films using a variety of analytical techniques, both at PVD and offsite facilities.
- Process development: work with customers to establish processes that meet their thin film materials requirements.
- Product testing: Ensure that PVD systems and components are thoroughly tested prior to shipment:
 - Perform and document tests on systems to ensure proper performance
 - Modify software as necessary for proper system operation.
 - Meet the production schedule.
 - Verify system quality (appearance, functionality) before and after shipment.
- System installation: install and demonstrate systems as required for domestic and international customers.
- Customer training: train new and existing customers on system features and operation.
- Customer support: provide ongoing support for system operation, software, and control issues. Assist customers as needed with process development.
- Field service support: travel to domestic and international sites to help resolve tool issues as needed.

Qualifications and Skills:

- Advanced degree (PhD or MS) in materials science, physics, mechanical engineering, or the like.
- Five years' experience (or a combination of education and experience) with thin film deposition systems and technologies.

- Knowledge of analytical techniques and theories for materials science, such as electron microscopy, EDX, XPS, XRD, ellipsometry, electrical characterization and the like.
- Experience with LabVIEW programming and operation. Experience with PLC/PAC programming is a plus
- CAD experience (SolidWorks) is a plus.
- Ability to research solutions to materials problems or technical issues with machines. Apply practical solutions to advance progress.
- Aptitude for working with a range of hardware and electronics for vacuum technology.
- Ability and desire to work on a team. Build open, friendly relationships with colleagues based on mutual integrity and technical competence. Collaboration with engineers inside the company and with outside partners.
- Communicate regularly (both verbally and in writing) with team members and customers to address technical issues, develop solutions and provide updates on progress or roadblocks to projects.