

TEST AND PROCESS ENGINEERING

At Angstrom Engineering, we sell industry-leading thin film deposition systems that can be custom designed and are assembled on-site by a team of engineers, scientists, and technologists who prioritize quality, service, and performance above all else.

We are a growing company looking to break into new markets and to increase our international presence. To assist us in meeting our goals, we are offering a position as part of our Test and Process Engineering team. The ideal candidate will be outgoing with strong communication skills, have experience with thin film deposition systems and processes, and possess a strong technical background. They will also show a keen interest in learning new technologies and striving towards continuous product development and improvement.

MAJOR DUTIES:

Primarily responsible for: system start-up, including mechanical, electrical, and PLC troubleshooting; system testing and validation; thin film process development and optimization; system installation and training at customer sites; customer service and support; and, continuous product development and improvement.

SPECIFIC RESPONSIBILITIES:

TEST, COMMISSIONING, AND TROUBLESHOOTING

- Commission systems including power-up, plumbing and connecting all utilities, and setting up computers with system control and third-party software applications.
- Test functionality and verify all operational aspects of system.
- Adjust mechanical devices such as transfer stages, manipulators, pneumatic actuators, interlocks, and limit switches.
- Investigate and resolve electrical and mechanical issues.
- Troubleshoot basic PLC code and SCADA communication.
- Create system manuals.
- Validate system performance against factory acceptance criteria.

PROCESS DEVELOPMENT AND PRODUCT IMPROVEMENT

- Develop and optimize thin film deposition processes to meet customer specification.
- Use a variety of thin film analytical methods for validating system performance.
- Integrate new components, hardware, and software to expand system capabilities.
- Continually improve system control and user experience.

INSTALLATION, TRAINING AND CUSTOMER SERVICE

- Install systems – including integration to third-party hardware such as gloveboxes – at customer’s facility, which can be worldwide.
- Train customers on all aspects of system use including basic operation, process development and optimization, troubleshooting, and preventative maintenance.
- Validate system performance against final acceptance criteria.
- Provide ongoing, responsive customer service and support.

QUALIFICATIONS:

- A post-secondary diploma or degree specializing in Nanotechnology, Mechanical, Chemical, or Electrical Engineering, Chemistry, or Materials Science.
- Experience with thin film deposition processes and systems considered an asset.
- Ability to travel internationally.
- Strong analytical and process engineering skills.
- Capable of teaching complex topics to an audience with a varying range of capabilities.
- Ability to self-motivate.
- Proven time management and organization skills.
- Hands-on mechanical and electrical experience.
- Experience with Microsoft Office, Adobe, and eDrawings/Solidworks.

ADDITIONAL INFORMATION:

Angstrom Engineering is an agile and growing business with a work force of exceptional people. We have been in business for 20 years and make leading edge and interesting equipment for the field of nanotechnology. Our working environment is clean, safe, and enjoyable. We offer flexible hours and a competitive compensation package including benefits.

To apply, send a resume and cover letter to careers@angstromengineering.com