

TEST AND PROCESS SPECIALIST

At Angstrom Engineering, we develop products and services focused on supporting pioneering research across a range of diverse applications. Our products have a significant global impact in a variety of sectors, including renewable energy, energy storage, quantum computing, medical/biological sensing, organic lighting, display, and many more. Angstrom Engineering is a growing company with an international client base which has been listed on the Profit 500 fastest-growing companies for six years in a row. We are a customer-focused company that works hard to build strong partnerships and find ways to exceed expectations.

We are a growing company looking to break into new markets and increase our international presence. To assist us in meeting our goals, we are looking for a Test and Process Specialist to join our team.

MAJOR DUTIES:

Primarily responsible for: system start-up, including mechanical, electrical, and software/PLC troubleshooting; system testing and validation; thin-film process development and optimization; partial project management; 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 connecting all utilities, powering up, and setting up computers with system control and third-party software applications.
- Test functionality and verify all operational aspects of the system.
- Adjust mechanical devices such as transfer stages, manipulators, pneumatic actuators, interlocks, and limit switches.
- Troubleshoot and drive resolution on electrical, mechanical, and software (PLC/SCADA) issues.
- Validate system performance against factory acceptance criteria.
- Partially manage projects to efficiently commission high-quality systems.

Process development and product improvement:

- Develop and optimize thin film deposition processes to meet customer specifications.
- 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.
- Content generation for quality control, business development, and technical documentation (process data, standard operating procedures, and marketing content).

Installation, training, and customer service:

- Install systems – including integration with third-party hardware such as gloveboxes – at the 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:

- Advanced degree (B.Sc., B.Eng., M.Sc., Ph.D.) specializing in Nanotechnology, Engineering, or Physical Sciences.
- Experience with thin film deposition processes and systems (PVD, CVD).
- Experience working in a laboratory, clean room, and/or technical environments.
- Hands-on mechanical and electrical experience.
- Ability to self-motivate.
- Proven time management and organization skills.
- Strong analytical and process engineering skills.
- Capable of teaching complex topics to an audience with varying capabilities.
- Experience working with common customer applications – optoelectronics, electronics, and optical coatings research considered an asset.
- Startup company experience is considered an asset.
- Software (C#, Python) and controls programming (PLC) experience is considered an asset.

ADDITIONAL INFORMATION:

Angstrom Engineering is an agile and growing business with a workforce of exceptional people. We have been in business for 30 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.

Angstrom Engineering welcomes and encourages applications from people with disabilities. Accommodations are available on request for candidates taking part in all aspects of the selection process.