TEST AND PROCESS ENGINEERING

At Angstrom Engineering, we develop products and services focused on supporting the nanotechnology community. Our products include a broad range of thin film deposition machinery which we design and manufacturer as well as offering process development and deposition services.

We work closely with our high-tech clients to help them apply nanotechnology to pioneer important developments in; semiconductors, OLEDs, solar panels, optical coatings, medical/biological sensors, energy storage, quantum computing and much more.

Angstrom Engineering is a growing company with an international client base which has been listed on the Profit 500 fastest growing companies 6 years. We are a customer-focused company that works hard to build strong customer relationships and find ways to exceed expectations.

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.
- Content generation for quality control and business development documentation (process data, standard operating procedures, and marketing content).

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:

- Advanced degree (B. Sc, B.Eng, M.A.Sc, PhD) specializing in Nanotechnology, Engineering, or Physical Sciences.
- Experience with thin film deposition processes and systems (PVD, CVD).
- Experience working in laboratory, cleanroom and/or technical environments.
- Experience working with common customer applications – optoelectronics, electronics, and optical coatings research.
- Startup company experience considered an asset.
- 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 a varying range of capabilities.

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 an email to careers@angstromengineering.com with a subject line that reads: "Test and Process Engineering Position". Include your resume *and* a cover letter.