

Job Posting

Position: Process Engineer
Reports to: Manager of MBE Operations
FLSA Status: Exempt



Description Summary

This position requires operation and maintenance of molecular beam epitaxy systems and associated vacuum, laboratory and production equipment. The successful candidate will be responsible for growth of advanced opto-electronic device structures and will correlate growth schedules for multiple projects and customers. This position will report directly to Amethyst's Manager of MBE Operations.

Key Responsibilities:

Molecular beam epitaxial growth of a variety of semiconductor materials. Perform material characterization. Write up scientific results for internal reviews and publications. Drive performance improvements to match product roadmap requirements. Management of production schedules based on product requirements and material supply.

Qualifications/Skills and Knowledge Requirements

- Must be a US Citizen due to contractual requirements from the Department of Defense.
- Eligibility to obtain security clearance.
- M.S or Ph.D. in physics, material science, electrical engineering, chemistry or related field.
- Ideally three years of experience in molecular beam epitaxy growth with preference given to experience in the growth of Oxides or GaN.
- Familiarity with opto-electronics and device fabrication.
- Ability to communicate results effectively both orally and in writing.
- Demonstrated ability to perform independently and take initiative.
- Knowledge of material characterization techniques.
- Experience designing, testing, & optimizing compound semiconductor opto-electronic devices.

Salary and Benefits: This is a full-time position with salary commensurate with experience. Benefits include medical, vision, dental, life insurance, 401(k), stock-options, and paid vacation.

Company Information:

Amethyst Research Incorporated (Amethyst) specializes in materials and manufacturing processes for high-performance sensors and electro-optical devices. Amethyst develops proprietary processing and quality control techniques to improve the operability and to manufacture semiconductor based devices. Amethyst's 11,000 square foot operations center houses state-of-the-art materials processing and characterization tools, an ion beam accelerator, and two molecular beam epitaxy growth chambers for manufacture of semi-conductor materials. www.amethystresearch.com

Amethyst is located in Ardmore, Oklahoma, equidistant (~90 miles) from Oklahoma City and Dallas/Fort Worth, TX and is at the hub of a ten-county region in South Central Oklahoma known as
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Arbuckle Country and Lake and Trail Country. The cost of living in Ardmore is below the national average. Compared to other cities in the region, Ardmore boasts an affordable community with an exceptional quality of life. Ardmore was listed as one of 50 Best Towns in America and was twice named All-American City. <http://ardmore.org/>

To Apply: Email a cover letter, CV or resume and references to careers@amethystresearch.com.

Amethyst is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.