

POSITION: PHOTONICS MANUFACTURING SPECIALIST/ENGINEER

May 2026

Applied Nanotools Inc. (ANT) specializes in the design and fabrication of high-resolution optical and photonic devices and components offering a range of unique products and services, including high-resolution zone plates, gratings, and calibration samples for synchrotron and lab-based EUV and X-ray microscopes globally. The company also offers the **NanoSOI™** integrated photonics prototyping foundry service for telecom, datacom, sensing, and quantum computing applications.

Summary of Position:

Applied Nanotools Inc. is seeking candidates for a full-time Photonics Manufacturing Specialist/Engineer position. The chosen candidate will be responsible for supporting operations and R&D associated with the NanoSOI™ photonics foundry service. Their responsibilities will be to:

- Assist clients with preparation and submission of photonic integrated circuit (PIC) designs
- Perform manual and automated design rule checking (DRC) of submitted designs
- Aggregate and prepare circuit designs for fabrication
- Assist with developing and maintaining process design kits (PDKs) and other software tools
- Perform device characterization and quality assurance using laboratory instruments such as scanning electron microscopy (SEM), optical microscopy, ellipsometry, refractometry, and test equipment
- Prepare technical documentation such as reports, design guidelines, and data sheets, and
- Provide technical support and troubleshooting to clients

The requirements of the position are:

- 4-year degree in Engineering Physics, Electrical Engineering, Nanoengineering, Physics, or equivalent
- Experience with preparing photonic or electronic circuit designs in a CAD or scripting environment such as L-Edit, KLayout, Cadence, Luceda, GDSFactory, or similar software
- Experience with software development in Python or similar programming language(s),
- Familiarity with photonic or electronic device testing and characterization
- Excellent verbal and written communication skills

Assets include:

- Advanced degree (Masters or PhD) specializing in integrated photonics
- Experience with preparing and submitting photonic circuit designs to a commercial foundry
- Micro/nanofabrication experience in a cleanroom setting
- Resides within the greater Edmonton metropolitan area

Interested applicants are encouraged to e-mail a cover letter and CV to: careers+eng@appliednt.com

