

POSITION: CLEANROOM PROCESS ENGINEER/SCIENTIST

April 2026

Applied Nanotools Inc. is seeking a highly skilled and motivated candidate for the position of **Cleanroom Process Engineer/Scientist** to advance and support the company's newly launched Metalens Foundry. The position will build on current efforts in the company involving the fabrication and characterization of metasurfaces/metalenses with a focus on custom prototyping and high-volume manufacturing. The position will also involve fabrication and characterization work with silicon and silicon nitride photonic integrated circuits (PICs). The position will be based at the company's headquarters in Edmonton, Alberta.

Company Overview:

Applied Nanotools Inc. specializes in the design and fabrication of high-resolution optical and photonic devices and components. Among its many unique products and services, the company offers high-resolution zone plates, gratings, and resolution targets for synchrotron and lab-based EUV and X-ray microscopes worldwide. The company also offers the **NanoSOI™** rapid prototyping foundry for photonic integrated circuits (PICs) used in telecom, datacom, sensing, and quantum computing applications.

Desired Qualifications:

- A master's or doctorate degree in engineering, physics, optics, or other closely related fields.
- Experience with the following cleanroom processes:
 - Electron-beam lithography (EBL) and photolithography
 - Physical vapor deposition (sputtering, evaporation, PECVD, LPCVD)
 - Plasma (RIE, ICP-RIE) and wet chemical etching
 - Device characterization (AFM, SEM, TEM, optical microscope)
 - Substrate preparation (cleaning, dicing, etc.)
- Experience with metasurface and metalens design, fabrication, and characterization is an asset.
- Experience with photonic integrated circuit design, fabrication, and characterization is an asset.
- Experience with cleanroom process development is an asset.

Interested applicants are encouraged to forward a cover letter and CV to:

careers+engsci@appliednt.com

