Position: Nanofabrication Technician
Job Status: Regular Full Time
Department: R&D
Location: Burnaby, BC, Canada
Reports to: Director, Research & Development

The Position:

The Nanofabrication Technician will be responsible for overseeing the operation of key equipment in cleanroom and laboratory environments, as well as assisting with the execution of established nano and microfabrication process steps for optical devices. The position is heavily hands-on and requires the ability to attentively follow cleanroom protocols and in-house standard operating procedures. The Nanofabrication Technician will have the opportunity to contribute to the team's research by working with our scientists in developing new fabrication procedures or improving the previously developed process steps. Nanotech's R&D Team will depend on your work to ensure the cleanroom and equipment are operating nominally and meeting our rigorous standards. The position involves detailed execution of individual cleanroom processes ranging from wet-chemistry, dry-etching, and nano-characterization techniques.

Key Responsibilities:

- Cleanroom Operations – Responsible for scheduled and unscheduled maintenance on laboratory tools in and out of the cleanroom. Ensuring tools and cleanroom are in good working order mitigating delay and waste.
- Nanofabrication – Learning and executing micro and nanofabrication processes steps while operating in and out of a Class 100 cleanroom environment. Assisting with experiments to improve, discover, and test nano/microfabrication processes.
- Metrology - Collecting and measuring data and executing nano-characterization processes.
- Reporting - Maintaining and updating documentation such as standard operating procedures (SOPs). Delivering regularly scheduled reports to your supervisor on time and at a high-quality standard.
- Organization - Ensure all materials are filed following agreed conventions and are easily accessible.

Qualifications and Experience:

- Education - B.Sc. or higher in physics, chemistry, electrical or materials engineering.
- Experience - 2+ years of hands-on experience in a Class 1000 (or higher) Cleanroom environment
- Technical - Wet bench and chemical processing; thin-film deposition (thermal, e-beam, sputtering deposition); photoresist spin coating; dry etching (RIE or DRIE); characterization (optical microscopy, profilometry); familiar with cleanroom safety and hazardous materials handling protocols.
- Characteristics - Motivated, self-driven professional. Ability to prioritize work and meet deadlines while working on multiple tasks – often under pressure with shifting priorities.

About us

Where ideas and innovation meet.

Nanotech Security Corp. is a leading innovator of nano-optic image technologies used in anti-counterfeiting applications. With billions of security features in circulation, Nanotech's products include secure and memorable security labels, stripes, patches, and colour-shifting films for currency authentication and brand protection.

KolourOptik is a patented technology that is exclusive to the government and banknote market and combines sub-wavelength nanostructures and microstructures to create modern overt security features with a unique and customizable visual effect. KolourOptik pure plasmonic colour pixels produce full colour, 3D depth, and movement used in security stripes and threads that are nearly impossible to replicate. At less than 5 microns thick, KolourOptik products seamlessly integrate into banknotes and other secure government documents.

LiveOptik is a patented technology that utilizes innovative nano-optics one tenth the size of traditional holographic structures to create next generation overt security features customized to our customers' unique requirements. LiveOptik delivers multi-colour, 3D depth, movement, and image switches for secure brand protection stripes, threads, and labels that are nearly impossible to replicate.

Nanotech is a public company, listed on the TSX Venture Exchange. Nanotech strives to create a corporate culture that values input and encourages individuals to express themselves in a team environment.

To Apply

Applications will be accepted until the position is filled. Please email your resume to careers@nanosecurity.ca, include a cover letter, and use the position title in the subject line of your email. Only candidates considered for an interview will be contacted. Thank you for your interest in this position, we look forward to hearing from you!

***Note**: We will **not** be accepting candidates from **recruitment agencies** at this time. Only Candidates who are eligible to accept employment in Canada WITHOUT sponsorship will be considered.*