

**Position:** Process Development Engineer/Technologist - Vacuum Coating & Thin Film  
**Job Status:** Regular Full Time  
**Department:** R&D  
**Location:** Thurso, QC, Canada (Ottawa-Gatineau Region)  
**Reports to:** Manager, R&D/Production

### **The Position:**

The Process Engineer/Technologist will help develop, optimize and problem solve manufacturing processes in a manner that meets safety, quality, and operational performance expectations. These processes are critical to the success of Nanotech's nano-optic and micro-optic product lines. The position is heavily hands-on in establishing and optimizing settings of vacuum coating and thin film machinery and provides a unique opportunity to work with cutting-edge nano-optical devices at both lab and industrial scales. The Process Engineer/Technologist will have the opportunity to contribute to the company's R&D and Production by working with our team to develop solutions for a wide range of customers and industrial applications.

### **Key Responsibilities:**

- Development – Lead process development of new opportunities and process improvement of existing products. Develop options, perform thorough analyses, and make recommendations. Assist management in understanding timelines, dependencies, and constraints.
- Communication – Creating, maintaining and updating documentation such as standard operating procedures. Delivering regularly scheduled reports on time and with high quality. Communicating processes to R&D and production staff with a focus on safety and quality.
- Production – Assist in meeting the production needs of the site.
- Organization – Ensure all materials are filed following agreed conventions.

### **Qualifications and Experience:**

- Experience – 5+ years' experience in a hands-on process development role working closely with manufacturing.
- Education – B.Sc. / B. Eng. or equivalent.
- Technical – Understands the fundamentals of a solid manufacturing process.
- Characteristics – Motivated, self-driven professional. Ability to prioritize work and meet deadlines while working on multiple tasks. Enjoys working with a multi-disciplinary team.
- Other – Capable of lifting 50 lbs.
- Assets – Experience with roll-to-roll vacuum technology & processes and UV/thermal curing resins. Experience in vacuum technologies and thin film development. Worked in a dynamic environment with growing manufacturing opportunities. Experience in large-scale printing, printed electronics, hologram manufacturing, or display manufacturing. Experience working in an ISO certified facility. Understanding of process flow and project management.

## **About us**

*Where ideas and innovation meet.*

Nanotech Security Corp., a subsidiary of Meta Materials Inc., 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.

LumaChrome™ optical thin film security features are manufactured using precision engineered nanometer thick layers of metals and ceramics to form filters designed to uniquely manipulate visible and non-visible light. This unique manipulation of light properties is used to create specialized security features in the form of threads, stripes, and patches that are applied to banknotes and other secure documents.

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](mailto: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.*