

Position: Production Specialist - Vacuum Coating and UV Casting.
Job Status: Full Time
Department: Production
Location: Thurso, Quebec, Canada (Ottawa-Gatineau Region)

The Position:

The Production Specialist works in a team environment and is responsible for the production of optical security features for high value documents based on the manufacture of vacuum deposited optical thin films, and UV cast films. This position supports the operation, care, and maintenance of our roll to roll vacuum coating films, as well as UV cast products. Under the general direction of the Production Manager, the Production Specialist provides multi-skilled operation and support of our production vacuum deposition and UV casting processes to our exacting tolerances.

Key Responsibilities:

- Operates the production vacuum deposition roll coater equipment (2). Constantly monitoring the process, assessing variables and making process input decisions to produce consistent high yields. Performs routine and scheduled maintenance to keep the vacuum coating equipment in prime operating condition.
- Performs roll coater cleaning and preparation procedures for optimum performance, while maintaining scheduled cycle times.
- Operates and maintains the UV casting equipment to produce casted film products to our exact standards.
- Performs trouble shooting on the vacuum coaters and production casting equipment including theorizing problems, recommending solutions and implementing corrective measures.

Qualifications and Experience:

- Education - A technical Millwright, Electrical or Mechanical Engineering Technician or Technologist
- Experience - Minimum of five years related industrial/production work experience. Providing a good understanding of mechanical/electrical/machine design fundamentals and complex computerized control systems.
- Interpersonal – Good interpersonal skills, with the ability to foster collaborative working relationships among internal teams. Motivated, self-driven, hard-working professional. Demonstrated attention to detail.
- Language Requirements - English essential. French language an asset.
- Shift work - Must be available to do shift work.
- Computer skills - Must be familiar with the following software: MS Outlook, MS Word, MS Excel.

Assets:

- Knowledge and/or experience with automated process control production lines
- Knowledge and/or experience vacuum deposition process, optical thin film manufacturing, in a roll-to-roll process

- Knowledge and/or experience with UV casting or embossing, flexo printing processes
- Knowledge of UV curable process manufacturing
- Knowledge and/or experience using basic hand tools and basic electrical diagnostic equipment
- Knowledge of reading electrical and mechanical drawings, computer aided design, LabVIEW and PLC controls
- Knowledge and experience of manufacturing production lines, performing maintenance and repairs
- Health and Safety SDS knowledge and chemical handling experience.

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, 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: *Only Candidates who are eligible to accept employment in Canada WITHOUT sponsorship will be considered.*