

TransEON

Job Opportunity – Nanofabrication Process Technician

TransEON is an Alberta-based startup developing semiconductor products for the space and telecom industries, with R&D and manufacturing operations based in Edmonton. We work with global partners to enable cutting-edge technology including 5G, satellite communications, and imaging radar systems through innovations in microelectronics.

In order to support ongoing technology development projects, we're currently seeking multiple Nanofabrication Process Technicians for a 2 year work term to potentially transition into a permanent position based on job performance. Candidates will work on a diverse team engaged in a number of activities including fabrication and characterization of nanoscale semiconductor devices, as well as the materials science required to enable future advances. Work will be primarily hands-on in lab and cleanroom environments, led by senior technical staff. As a result, it is anticipated that the majority of work will be conducted on-site at our facilities in Edmonton, though some activities may be remote due to the ongoing COVID-19 pandemic.

Responsibilities

Work items that the candidate may be directly involved with include:

- Physical fabrication of microelectronic devices using a number of processes including photolithography, etch, and deposition;
- Inspection and characterization of fabricated samples using metrology tools including optical microscopy, SEM/EDX, TEM, XRD, XPS, and electrical test (IV/CV/RF);
- Collection and basic analysis of obtained results for presentation to senior technical staff;
- Participation in process experiment planning and execution; and,
- Maintenance and troubleshooting of processing tools.

Minimum Qualifications

- At minimum, completion of a two-year technical program in nanotechnology, materials science, or a related field.
- Hands-on experience in microfabrication, characterization, or material analysis of semiconductors and thin films is required.
- Candidates must be able to handle small samples, chips, or wafers with tweezers and stand for prolonged periods of time in a laboratory or cleanroom.
- Strong record-keeping, logging, and presentation skills are a must.
- Knowledge of SPC and scripting (i.e. Python) would be a significant asset.
- Employment will be conditional on a comprehensive reference and background check, as well as completion of requisite on-the-job safety training and protocols.

To apply, please send a copy of your resume to careers@transeon.ca and reference this posting.