Associate Engineer I (Microfluidics)

Company: ScopeSys Inc.
Location: Vancouver, BC
Type: Full-Time | Entry Level | On-site (Vancouver lab)

About ScopeSys

ScopeSys builds next-generation single-molecule analytics to accelerate the design, development, and manufacturing control of genetic medicines. Our CLiC (Convex Lens-induced Confinement) platform measures size, payload, structure, and interactions at the single-particle level—linking biophysics to drug performance. We're translating this technology into benchtop instruments, consumables, and analytical services for pharma and biotech teams.

Role Overview

We are looking for a hands-on, process-minded Associate Engineer I with experience in microfluidics to help establish manufacturing of the microfluidic consumables at the heart of our CLiC platform. Working under senior guidance, you will develop the assembly workflows, jigs, fixtures, and SOPs needed to get production running for our beta program—and develop a foundation for scale manufacturing. This is an early-career role for someone who wants to build a process, not just run one. This role reports to our Product Lead.

Key Responsibilities

- Develop assembly workflows, jigs, and fixtures for microfluidic consumables used in single-molecule/single-particle analysis, working closely with our product development team.
- Author manufacturing SOPs, work instructions, and QC checklists—creating documentation that is clear and transfer-ready.
- Assemble consumables for the beta program; perform QC checks, track yield and defect rates, and drive continuous improvement.
- Execute functional tests (flow, leak, optical) on consumables and support design iteration by feeding assembly insights back to the engineering team.
- Develop and document QC test protocols for consumables, building a repeatable test suite that can be handed off alongside the production process.
- Prepare and ship consumable kits to beta customers; help collect and communicate performance feedback.

Qualifications

- Bachelor's degree in engineering (or final year) in Mechanical, Biomedical, Manufacturing, Engineering Physics, or a relevant STEM degree—or 3–4 years of relevant hands-on experience.
- Aptitude for hands-on precision assembly; comfortable working with small, delicate components where fine motor control and careful handling are essential.
- Process improvement mindset—ability to identify sources of variability in an assembly process and propose practical, testable fixes.
- Ability to write clear technical documentation (SOPs, work instructions, test records).
- Familiarity with basic measurement and inspection tools (calipers, microscopes, or similar).

Additional assets

- Exposure to microfluidics, lab-on-chip devices, or precision fabrication through coursework, co-op, or personal projects.
- Experience designing or working with assembly jigs, fixtures, or tooling—even at a student project level.
- Onshape, SolidWorks, or similar CAD tools for reading drawings and designing fixtures.
- Basic data analysis in Python or Excel for tracking process metrics.
- Cleanroom protocols or optical assembly experience.

Why ScopeSys

- Build something from scratch—this role has direct ownership of establishing a manufacturing process for a novel analytical platform.
- Gain cross-functional experience spanning process development, precision manufacturing, and product development at an early-stage deep-tech company.
- Competitive compensation, benefits, and room to grow as the company scales.
- Clear path for career progression—as the company grows, this role evolves with it, with opportunities to take on greater ownership in process development, product development, or technical leadership.

How to Apply

Send your resume and a short cover note highlighting any relevant hands-on experience, coursework, or projects (co-op, capstone, personal, or otherwise) to

careers@scopesys.ca

with the subject line "Microfluidics Associate".