### **Research Scientist**

Location: Vancouver, BC

**Team:** R&D – Single-Molecule Imaging & Analytics

**Company:** ScopeSys Inc.

## **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.

#### The Role

You will develop, validate, and scale assays and consumables that power CLiC single-particle analytics—working at the intersection of flow cell design, surface chemistry, nanoparticle/oligo biology, and quantitative microscopy. You'll collaborate closely with microscopy, software, and instrument engineering to convert scientific methods into robust, product-grade applications and workflows.

### What You'll Do

- Design & build applications and assays for single-molecule, single-particle, multi-parametric analytics (e.g., size, loading, structure, fusion/interaction kinetics) for the design and development of genetic medicines.
- Prototype and qualify novel applications and consumables (flow-cells, reagents, reference standards) for use with ScopeSys instruments and prepare for commercialization.
- Run experiments end-to-end with sample prep → imaging/CLiC runs → analysis →
  interpretation to lead and support pharmaceutical projects. automated pipelines with the
  software team.
- Document rigorously: write SOPs, work instructions, and technical reports; support manuscripts, posters, and application notes.
- Lead and support pharma/biotech reach outs, discussions and implementation of research projects with pharma partners applying our technology and products.
- Cross-functional collaboration: partner with hardware, software, optics, and applications to iterate designs and hit readiness milestones (alpha → beta → release).

### **What You Bring**

1. Required

- PhD (or MSc with strong industry experience) in Chemistry, Biochemistry, Biophysics, Biomedical Engineering, Physics, or related fields.
- Proficiency with quantitative microscopy (widefield/confocal/TIRF or related); comfort with ImageJ/Fiji and basic Python or MATLAB analysis.
- Experience with surface chemistry/biointerfaces and nanoparticle or biomolecular assays (e.g., LNPs, EVs, nucleic acids, oligos, proteins).
- Proven ability to own experiments from design to data-driven conclusions; strong documentation and reproducibility mindset.
- Thrive in a fast-paced, build-test-learn startup environment; clear communication across disciplines.

#### 2. Nice to Have

- Experience interacting with pharma customers and working on research service projects with biopharma and biotech companies.
- Industry experience with assay development and validation towards product commercialization.
- Familiarity with LNP analytics (e.g., DLS/NTA, fluorescence labeling, SPR/BLI, FRET) and single-molecule/single-particle methods.
- Basic statistics/DoE; comfort defining QC metrics and acceptance criteria for productization.

# Why ScopeSys

- Build a first-of-its-kind analytics platform that closes a critical gap for genetic medicines.
- Work shoulder-to-shoulder with experts in microscopy, surface chemistry, analytics, and product engineering.
- Competitive compensation, equity, benefits, and meaningful ownership of projects with real-world impact.

# **How to Apply**

Send your CV and a brief cover note (highlighting two relevant projects and your role) to careers@scopesys.ca with the subject "Research Scientist". Include links to publications if available.