



Research Scientist in Mass Spectrometry

The opportunity

Point Surgical Inc (PSI). is a new start-up developing surgical biodiagnostic technology in Toronto, focused on commercialization of a novel technology spun out of U of T/UHN/Unity Health Toronto.

PSI has an opening for a Research Scientist in Mass Spectrometry. This is a permanent, full-time position located in Toronto, Ontario Canada.

We are developing a new kind of biopsy in which mass spectrometry analysis of laser desorption plume is used to detect specific molecular biomarkers. As an R&D Scientist & Engineer at PSI, you will be responsible for integrating a mass spectrometer, an ionization pickup system and an ultrafast laser into a prototype. You will be involved with prototyping as well as testing the technical viability of the pickup system and will be expected to develop innovative solutions to help take this technology to the market. *This job is for someone with previous experience in mass spectrometry instrumentation and/or ion source development.*

What you will do

- * Design and build a proof-of-concept laser based ambient mass spectrometry system for molecular identification of tissue biomarkers.
- * Define and develop research topics within your area of expertise.
- * Identify and source components from qualified suppliers for OEM subcomponents.
- * Collaborate with other team members to develop an integrated prototype.
- * Stay up-to-date with respect to the latest academic advances & industry trends within your area of specialization.

What you bring

- * A background in applied or basic research (in industry or academia) + the ability to lead research projects through standard experimental methodologies.
- * Hands-on experience with cutting-edge methods such as ESI, MALDI-MS or DESI-MS and MS instrumentation or ion source development.
- * A highly collaborative spirit and excellent communication, interpersonal, and presentation skills
- * Curiosity, critical thinking, and resourcefulness.

The successful candidate for this position should have

- * M.Sc, B.A.Sc or PhD in Chemistry/Physics, Biotechnology or in a related technical field.
- * 4 years of experience in similar field.
- * Intimate knowledge of analytical methodologies including mass spectrometry, and other forms of spectroscopy and spectrometry such as IR, UV, NMR, GC, HPLC-MS.
- * Familiarity with mass spectrometry instrumentation & detection and ionization technologies including design, repair and maintenance of systems.
- * *Past experience in mass spectrometry instrumentation and ion source design is an asset.*

What to send our way (hr@pointsurgical.com)

- * Your CV, highlighting your education, experience, and skills.
- * A cover letter to convince us that you can build a prototype as described above, *highlighting past experience with mass spectrometry instrumentation or ion source development.*

Closing Date: Oct 30th 2020

We thank all applicants for their interest but wish to advise that only those selected for an interview will be contacted.