

Senior Scientist - Instrument Design, ICP Mass Spec. R&D

Responsible for the development and implementation of research procedures and techniques to meet organizational needs and to capitalize on potential new or improved products. Through laboratory research, proves and applies scientific theories to develop new and/or improved products, processes or technologies.

Job Description

Senior R&D Scientist – ICP-MS

PerkinElmer is a global technology leader, driving growth and initiative in the Environmental and Human Health Science markets. The Company is a leading force in the development, production, marketing, servicing, and supporting of laboratory instrumentation and ancillary services throughout the world.

PerkinElmer is searching for an experienced research and development scientist to help create innovative solutions in our Inductively Coupled Plasma –Mass Spectrometry (ICP-MS) product line. The successful candidate will become a key member of a group of senior PerkinElmer researchers, and will liaise with other scientists at PerkinElmer’s partners and collaborators.

This position is based in Woodbridge, Ontario, Canada.

Duties and Responsibilities:

- Initiate and execute scientific research and product development, with primary focus on next generation instrument development, technology, trade secrets, and intellectual property.
- Provide mass spectrometry expertise and guidance within the R&D product development team, ensuring thorough conceptualization, design, and validation of new products.
- Conduct scientific experiments to evaluate new technologies; adapt, modify, improve, develop, and apply them to future products.
- Prepare reports on research progress and technical feasibilities based on findings from the experiments.
- Influence the scientific community and instrument market via patents, publications, and conference presentations.
- Work with applications, manufacturing, engineering, and service personnel to improve real-world performance, quality, value, manufacturability, and serviceability of ICP-MS products.
- Demonstrate independent and creative scientific thinking, ability to solve complex problems, and resilience to setbacks and changes.
- Contribute effectively to multiple collaborative projects in a lean, agile, cross-functional team environment.

Basic Qualifications:

- Ph.D. in science or related fields (Physics, Chemistry, or Engineering, with strong laboratory, computer and mathematics skills) and 3+ years of mass spectrometer instrument development experience.

or

- MS in science, engineering, or related fields (Physics, Chemistry, or Engineering, with strong laboratory, computer, and mathematics skills) and 6+ years of mass spectrometer instrument development experience.
- Prior mass spectrometry instrument *industrial design* experience (preferably ICP-MS)

Preferred Qualifications:

- Knowledge of mass spectrometry theory and components (*e.g.* sample introduction, plasma and other ion sources, vacuum technology, electromagnetic fields, quadrupole-based mass analyzers, RF systems, ion detectors, and data acquisition hardware)
- Strong “hands on” instrumentation design, optimization, and troubleshooting skills.
- Ability to solve complex problems and dissect projects into manageable tasks
- Excellent group interpersonal skills.
- Proven track record of patents and/or publications in peer-reviewed journals.
- Strong written and oral communication skills.
- Demonstrated organizational skills to effectively manage multiple tasks with different priorities.
- Previous successful academic or work-related experience mentoring peers.

<https://jobs.perkinelmer.com/job/woodbridge/senior-scientist-instrument-design-icp-mass-spec-r-and-d/20539/11003731216>