Inductively Coupled Plasma-Mass Spectrometer and Low-Level Clean Laboratory Supervisor

Competition Number: J0523-1267

Position Title: Inductively Coupled Plasma-Mass Spectrometer and Low-Level Clean Laboratory Supervisor

Position Number: 00504889

Employee Group: Support Staff - USW Local 2010

Job Category: Research

Department or Area: Geological Science

Location: Kingston, Ontario, Canada (On-site)

Salary: $71,767.00 - $89,050.00/Year

Grade: 09 Review Salary Information Here

Hours per Week: 35

Job Type: Permanent (Continuing)

Shift: 7 Monday - Friday

Number Of Positions: 1
Date Posted: July 5, 2023
Closing Date: August 31, 2023

COVID 19 On-Campus Requirements

Prior to May 1, 2022, the University required all students, faculty, staff, and visitors (including contractors) to declare their COVID-19 vaccination status and provide proof that they were fully vaccinated or had an approved accommodation to engage in in-person University activities. These requirements were suspended effective May 1, 2022, but the University may reinstate them at any point.

About Queen’s University

Queen’s University is the Canadian research intensive university with a transformative student learning experience. Here the employment experience is as diverse as it is interesting. We have opportunities in multiple areas of globally recognized research, faculty administration, engineering & construction, athletics & recreation, power generation, corporate shared services, and many more.

We are committed to employment equity and diversity in the workplace and welcome applications from individuals from equity seeking groups such as women, racialized/visible minorities, Indigenous/Aboriginal peoples, persons with a disability, persons who identify in the LGBTQ+ community and others who reflect the diversity of Canadian society.

Come work with us!

Job Summary

Reporting to and receiving general direction from the Queen's Facility for Isotope Research (QFIR) Principal Scientist(s) (PS), the Department Manager, and ultimately the Department Head of Geological Sciences and Geological Engineering, the Inductively Coupled Plasma- Mass Spectrometer (ICP-MS) and Low-Level Clean Laboratory Supervisor (Laboratory Supervisor) assists with the effective management, planning and coordination of the overall operation of QFIR. The Laboratory Supervisor will design, test and implement sample preparation and instrumental measurement methods to best facilitate the needs of laboratory users and research requests from the PS. The Laboratory Supervisor will supervise, advise and educate students and staff during their work in QFIR to give them quality results and understanding of sample measurement, and data processing and reporting. The Laboratory Supervisor will ensure safe and efficient operation of the laboratories for all staff and users, and maintain and repair instruments for optimum performance. The incumbent will order and maintain stock of laboratory consumables and instrument maintenance parts to minimize down time of the instruments and laboratories. The Lab Supervisor ensures smooth and timely workflow through the laboratories, and serve as the first point of contact for the PS and Faculty users in QFIR. In consultation with the PS, the Lab Supervisor assists with planning, prioritizing and managing the work of QFIR staff and students, while providing strategic and tactical advice, guidance and coaching.
Job Description

KEY RESPONSIBILITIES:
- Maintain a safe and efficient working environment for users of the clean (sample preparation) and Inductively Coupled Plasma (ICP) laboratories.
- Work independently within general guidelines provided by the PS and manage the day-to-day operations of the laboratories.
- Provide expert level advise and guidance to laboratory users to ensure results are best suited to their research objectives.
- Review pertinent scientific literature and monitor results to develop new and improve existing sample preparation and measurement methods to maintain high-quality results.
- Work with hazardous and radioactive materials in accordance with Queen's University safety requirements.
- Purchase consumables and preventive maintenance supplies as needed.
- Review and edit students’ manuscripts prior to submission to scientific journals and theses.
- Record experimental data in an accurate and detailed manner.
- Undertake other duties as assigned in support of related research projects, or other departmental laboratory needs.

REQUIRED QUALIFICATIONS:
- Graduate degree in Geological Sciences (MSc or PhD) combined with extensive experience (5 years+) in an ICP Mass Spectrometry (MS) laboratory setting.
- Demonstrated ability to work independently.
- Experience in project management.
- Consideration may be given to an equivalent combination of education and experience.

SPECIAL SKILLS:
- Practical training in the use of ICP-MS, MC-ICP-MS, OES, laser ablation, clean lab operation, maintenance and sample preparation and element separation (chromatography) techniques.
- Ability to work independently with minimal supervision.
- Knowledge of and experience in sample preparation for trace level measurement (• Ability to share knowledge and teach protocols to others as applicable.
- Strong technical/scientific communication skills, written and verbal.
- Strong judgment in adapting procedures to meet changing needs of the research project.
- Care in handling dangerous and radioactive materials, operating complex equipment and preparing experimental solutions and samples.
- Ability to foresee problems and prevent where possible.
- Ability to work safely.
- Ability to complete work in a timely manner and meet deadlines.
- Technical proficiency in basic and research specific computer software.
- Ability to maintain detailed records of experimental data.
- Strong investigative skills to seek out information enhancing knowledge and expertise.

DECISION MAKING:
- Make autonomous decisions on the most applicable scientific procedures and protocols to generate maximal progress and efficiency.
- Use independent judgement to determine if alternate methods should be employed to achieve better results and adapt accordingly.
- Make decisions concerning day-to-day matters related to efficient operation of the laboratories.
- Develop and determine laboratory best practices. Determine if student, staff and researchers
work within the laboratories are within safety guidelines.
• Use expertise and knowledge to determine how best to answer questions from other labs and outside agencies regarding research and sample measurement.

**Employment Equity and Accessibility Statement**

The University invites applications from all qualified individuals. Queen's is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal Peoples, persons with disabilities, and persons of any sexual orientation or gender identity. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents.

The University provides support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. Candidates requiring accommodation during the recruitment process are asked to contact Human Resources at hradmin@queensu.ca.

Are you interested in this job?

I am Interested

Queen's University Human Resources
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