

Postdoctoral Position in Hyperspectral and Petrological Analysis of Drill Core for Resource Characterization

Department of Earth and Environmental Science, Acadia University, Wolfville, Nova Scotia in collaboration with Industry Partner, Scient Analytics Inc.

The Department of Earth and Environmental Science at Acadia University, in partnership with Scient Analytics Inc., is seeking a motivated postdoctoral researcher in geochemistry, hyperspectral imaging, and/or economic geology for a fully-funded 3-year term starting as soon as Fall 2023. The successful applicant will utilize their expertise to provide advanced insights into mineralogical composition and lithological characterization, merging science and technology to redefine efficiency and ecological responsibility in natural resource exploration.

This position is co-funded by Mitacs and Scient Analytics Inc., where the latter will serve as the industry partner and advisor.

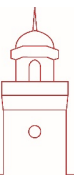
Located in the picturesque town of Wolfville, Nova Scotia, Acadia University offers a vibrant academic community with a focus on undergraduate education, research, and community engagement. For more information about Acadia University, please visit: <http://www.acadiau.ca>.

Role and Responsibilities:

- Use advanced RGB and hyperspectral core imaging technologies to derive insights into mineralogical composition and lithological characterization.
- Collaborate with diverse teams of geoscientists, software engineers, and data scientists to integrate geochemical insights into real-time operational decision support systems.
- Apply spectral data analysis techniques for the identification of minerals and lithologies, contributing to innovative deposit discovery and refining petrogenetic models.
- Lead the creation of standardized mineralogy reports and datasets.
- Mentor and guide undergraduate and graduate students within the research group, fostering their growth and understanding of geochemical processes and technologies.

Qualifications:

- PhD in Geology, Earth Science, or a related field.
- Demonstrated experience in geochemical analysis techniques, preferably within resource exploration or mining contexts.
- Familiarity with core imaging technologies, such as RGB and hyperspectral imaging.
- Proficiency in hyperspectral data analysis, reflectance spectroscopy, or related mineral identification software tools.
- Excellent communication skills and an ability to work with a multidisciplinary team.

**Benefits:**

- Contribute to advancing the future of resource exploration by using state-of-the-art technologies for mineralogical characterization and core imaging.
- Engage in a dynamic academic environment, focused on making a positive impact on the industry and the environment.
- Opportunity for continuous learning and exposure to cutting-edge research and industry practices at a renowned institution.

Equity, Diversity, Inclusion, Accessibility:

Acadia University values equity, diversity, inclusivity, accessibility, and anti-racism. We welcome applications from all backgrounds, including Indigenous persons, women, persons with disabilities, racialized persons, 2SLGBTQIA+ persons, and all intersections of these identities.

Application Process:

Applicants are encouraged to send a CV and a tailored cover letter to Dr. Mo Snyder (morgan.snyder@acadiau.ca). In your cover letter, please highlight your relevant experience and explain any impact career interruptions may have had on your record of research achievements. The position will remain open until a suitable candidate is identified, with a preference to fill the role by the end of September 2023.

Note: We appreciate your interest in Acadia University. Only candidates selected for further discussion will be contacted.