

CANADA FIRST RESEARCH EXCELLENCE FUND ASSISTANT PROFESSOR - ANALYTICAL GEOCHEMISTRY

Faculty of Arts and Science
Queen's University, Kingston, Ontario, Canada



One of Canada's leading universities, Queen's has a long-standing reputation for academic excellence, research, and a diverse and vibrant learning environment. With its strong tradition of public service, the University has helped to shape Canadian values and policies, educating notable political and cultural figures.

Queen's University is located in the heart of the community in historic Kingston, midpoint between Montreal, Toronto, and the nation's capital.

The Department of Geological Sciences and Geological Engineering at Queen's University invites applications for a tenure-track faculty position at the rank of Assistant Professor with specialization in Analytical Geochemistry. The expected starting date for the position is July 1, 2017, although this is negotiable. The successful candidate will be an excellent scientist who will establish an outstanding research program and will contribute to teaching and supervision in geochemistry. In exceptional cases, candidates above the level of Assistant Professor may be considered.

Queen's University is one of Canada's leading research-intensive universities. The Department of Geological Sciences and Geological Engineering at Queen's University has 14 faculty members working in all areas of Geology, Geological Engineering and Geochemistry. We are located in historic Kingston on the shores of Lake Ontario. Kingston's residents enjoy an outstanding quality of life with a wide range of cultural, recreational, and creative opportunities.

Queen's University is playing a lead role in the establishment of the Canadian Particle Astrophysics Research Centre (CPARC), an ambitious new program funded by the Canada-First Research Excellence Fund (CFREF). A major goal of CPARC includes building a powerful research team contributing to the many diverse requirements of a world-leading particle astrophysics research program. This includes the development of particle astrophysics experiments and theory, observational and theoretical astrophysics, detector design, and the development of tools and techniques for calibration, material screening and low level radio-purification. To achieve this, CPARC aims to benefit from and strengthen cross-disciplinary expertise at Queen's between Physics, Engineering Physics and Astronomy (particle astrophysics and detector development), Chemistry (radio-analytical chemistry), Geological Sciences and Geological Engineering (Facility for Isotopic Research) and Mechanical and Materials Engineering (Reactor Materials Testing Laboratory). The University anticipates hiring seven faculty members associated with CPARC, in addition to a Tier 1 Canada Research Chair particle astrophysics theorist to complement its current team of research scientists, engineers, technicians, postdoctoral fellows and graduate students. An additional seven faculty hires are being strategically targeted at collaborating institutions across Canada to significantly enhance this world-renowned particle astrophysics program. For further information and the complete set of goals for CPARC, please visit www.cparc.ca.

The successful candidate for this position will develop a research program that is, on one hand, well-aligned with the research goals of CPARC, but which also complements the existing research activities of the Department of Geological Sciences and Geological Engineering. The candidate will develop a new research thrust within the context of the Queen's Facility for Isotope Research (QFIR <http://www.queensu.ca/geol/qfir>) where existing infrastructure will be employed for new purposes such as the development of low background techniques, particularly ultra-sensitive mass spectrometry tools for measurements of low-level background radiation, and to develop the chemical processing steps required to treat samples for mass spectroscopy. The candidate will lead the scientific program in the study of ultra-low backgrounds of a variety of elements of importance in the CPARC experimental effort, including developing analytical tools and procedures to measure elemental concentrations and distributions at extremely low levels in a variety of elements of importance in the CPARC experimental effort, including developing analytical tools and procedures to measure elemental concentrations and distributions at extremely low levels in a variety of complex materials. Through this research, the candidate will contribute to CPARC's continuing and future research in particle astrophysics.

The successful candidate will be expected to initiate an independent research program. It will be necessary to collaborate with other researchers and to establish scientific partnerships through links to other universities, industries, and international programs. The successful candidate must have a Ph.D. in geochemistry completed at the start date of the appointment, and a strong record of scientific and/or technical publications. Post Ph.D. experience in applied geochemistry, method development and laboratory management, involving graduate and post-doctoral supervision is considered a strong asset. A proven ability to participate in scientific collaborations with demonstrated good project management skills, some supervisory experience, and success in research funding proposals are required.

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In addition to teaching undergraduate and graduate-level courses, the successful candidate will also mentor graduate and undergraduate students, and will have a track record of excellence in teaching and graduate student supervision. The successful candidate will also supervise technical staff in analysis methods and laboratory techniques in a research-intensive environment. Registration as a Professional Geologist or a Professional Engineer in Ontario, or eligibility and willingness to acquire registration in Canada, will be considered to be an asset.

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 LGBTQ persons. All qualified candidates are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadian citizens and permanent residents of Canada will be given priority.

To comply with Federal laws, the University is obliged to gather statistical information about how many applicants for each job vacancy are Canadian citizens / permanent residents of Canada. Applicants need not identify their country of origin or citizenship, however, all applications must include one of the following statements: "I am a Canadian citizen / permanent resident of Canada"; OR, "I am not a Canadian citizen / permanent resident of Canada". Applications that do not include this information will be deemed incomplete.

A complete application consists of:

- a cover letter (including one of the two statements regarding Canadian citizenship / permanent resident status specified in the previous paragraph),
- a current Curriculum Vitae (including a list of publications),
- three samples of research publications,
- a statement of research interests and experience (including graduate supervision),
- a statement of teaching interests and experience (including undergraduate/graduate teaching outlines and evaluations if available); and,
- three letters of reference, which should be sent directly by your referees to the Head, Department of Geological Sciences and Geological Engineering at: cparc-careers@cparc.ca.

Please indicate clearly the position for which you are applying by quoting the following position number on your cover letter: Position # 00503695. Electronic applications (in PDF format) can be emailed to the Head, Department of Geological Sciences and Geological Engineering at cparc-careers@cparc.ca.

The first review of applications will begin on **February 12, 2017** and will continue thereafter until a successful candidate is found.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. If you require accommodation during the interview process, please contact Julie McDonald at cparc_careers@cparc.ca.

Additional information about Queen's University, which may be of interest to prospective faculty members, can be found at <http://www.queensu.ca/facultyrecruitment>.

Academic staff at Queen's University are governed by a [Collective Agreement](#) between the University and the [Queen's University Faculty Association \(QUFA\)](#), which is posted at <http://queensu.ca/facultyrelations/faculty-librarians-and-archivists/collective-agreement> and at <http://www.qufa.ca>.