

Posting Date: October 2

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Canada Research Chairs were established as part of a national strategy to foster research excellence (www.chairs-chaire.gc.ca). The successful candidate must submit an external application to the Tri-agency Institutional

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Processing, Metallurgy, Sustainability and Intelligent Mining Systems. The department possesses world class laboratories for teaching and research in blasting, rock mechanics, mineral processing and extractive metallurgy.

Critical Metals have the potential to revolutionize the path towards a net-zero emissions future, and Canada requires a secure domestic source of these metals for its future advancement towards green technology industries. Canada must diversify its sources of critical metals, and emerge as a reliable global supplier of these critical elements. Furthermore, the recently announced path to net-zero emissions by 2050 by the Government of Canada, imposes emissions-reduction targets for the coming decades that are unachievable without significant investment in research in the area of critical metals.

This NSERC Canada Research Chair (CRC) Tier 2 position will leverage existing strengths in extractive metallurgy at Queen's University, helping establish our leadership in the hydrometallurgy of critical metals. It will focus on the extraction of critical metals from primary sources, as well as the recycling of critical metals from end-of-life products such as smart phones and lithium ion batteries, with the aim of developing chemical processing options that improve economic feasibility while also reducing environmental impacts.

The candidate is expected to thrive on research in a truly multidisciplinary domain, spanning Mining Engineering, Chemical Engineering, Materials and Metallurgical Engineering, as well as Geological Sciences & Geological Engineering, and Engineering Chemistry. The appointment also has significant implications on the field of public policy, with potential for collaboration with

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acceptable (e.g., P.Eng., temporary engineering license, provisional engineering license, etc.).

The successful candidate will also be expected to make contributions through service to the department, the Faculty, the University, and/or the broader community. Salary will be commensurate with qualifications and experience.

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