

Multiple graduate positions in environmental sciences of rare earth elements

Trent University, INRS (Institut National de la Recherche Scientifique), and Laval University invite applications for *fifteen graduate positions* in environmental sciences of rare earth elements as critical minerals. This multidisciplinary project aims to assess the mechanisms by which rare earth elements (REEs), as priority critical minerals, affect Canadian terrestrial and aquatic ecosystems. The generated knowledge will allow the development of novel and responsible REE-based applications for sustainable growth of the biotechnology and agroforestry sectors. We aim to expand the potential end use of the research by facilitating the interactions between academic, private and government partners; each partner provides essential fundamental, technical and applied knowledge.

Positions	Institution	Topics
MSc1	Trent University	Environmental biogeochemistry, food web
MSc2	INRS	Biomonitoring
MSc3	Laval University	Speciation and geochemical modeling
MSc4	INRS	Ecotoxicity
MSc5	Trent University	Ecotoxicity
MSc6	Trent University	Algal biotechnology
MSc7	Trent University	Phytoremediation
MSc8	Trent University	Crop physiology and sustainable agriculture
MSc9	Trent University	Environmental risks assessment
MSc10	Trent University	Crop supplement and fertilizers
PhD1	Trent University	Environmental biogeochemistry, food web
PhD2	Trent University	Environmental geochemistry, contamination
PhD3	Trent University	Soil microbiology and health
PhD4	Trent University	Forest management

Tasks: The successful candidates will take an active role in planning and executing the research ideas, field and laboratory work in different graduate programs at Trent, INRS and Laval Universities.

Requirements: The positions are ideally suited for scholars (BSc, MSc holders) in environmental sciences, with a solid knowledge of ecotoxicology, biogeochemistry, microbiology, plant sciences, forestry or environmental modeling. We particularly seek a robust technical proficiency in advanced chemical/molecular analyses.

We offer: Fully funded scholarships, innovative & applied research topics, and well-equipped laboratories in environmental sciences, ecotoxicology & molecular (micro)biology.

How to apply: The application package should include (i) a cover letter outlining how the candidate fulfills the requirements, (ii) a full CV, (iii) academic transcripts and (iv) a list of contacts of three referees. The email subject should include the position of interest.

Applications should be sent as a single PDF to Dr. Huy Dang, Assistant Professor at Trent University: huydang@trentu.ca.

Commitment to diversity: The diversity of our community is at the core of innovation and creativity and strengthens our research excellence. Our groups strive to embody the values of justice, equity, diversity, and inclusion. Thus, we are committed to recruiting and fostering a diverse and inclusive community of outstanding scholars.