
Postdoctoral researcher in environmental chemistry and soil sciences

The ENvironmental and Isotope Geochemistry & Mass spectrometry Applications ([EnIGMA](#)) and Agricultural Soil Health ([ASH](#)) labs at the [School of the Environment](#), Trent University, invite applications for a postdoctoral position in environmental geochemistry and soil sciences.

Project summary: This industry-driven project aims to develop and test nature-based alternatives to conventional N fertilizers as on-farm solutions to reduce greenhouse gas emissions. This interdisciplinary research will combine biogeochemistry of nutrients, soil health assessment, and microbial ecology through multi-scalar field and laboratory experiments.

Tasks: The successful candidate will take an active role in planning and executing the research ideas, field and laboratory work, mentoring students, reporting and publishing, and communicating with industrial partners.

Requirements: This position is ideally suited for a Ph.D. holder in environmental geochemistry of nutrients with a solid knowledge of agricultural and soil sciences. Experience in microbial ecology, metagenomics, and/or greenhouse gas measurements is a significant asset. The successful candidate will have a publishing record reflective of their career stage, be independent, self-driven, creative, fluent in English, and hold a valid driver's license. We particularly seek a robust technical proficiency in advanced chemical/molecular analyses.

We offer: Innovative & applied research topic, and well-equipped laboratories in environmental sciences (e.g., mass spectrometry, XRF, SEM-EDX) & molecular microbiology (e.g., qPCR, sequencing, SIP approaches). The appointment will be for one year, with the possibility of a one-year renewal upon performance and funding availability.

[Trent University](#) is located in Peterborough, Ontario - 90 minutes from downtown Toronto - and offers a breathtaking campus with a spectacular natural and architecturally inspiring backdrop.

How to apply: Review of applications will begin February 1st, until the position is filled. The application package should include (i) a cover letter outlining how the candidate fulfills the requirements, (ii) a full CV, (iii) a 2-page research statement and interests as it relates to this position, and (iv) a list of contacts for three referees.

Applications should be sent as a single PDF to 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.