

Graduate program on developing a field evaluation of soil health tool in New Brunswick Canada

March 6, 2025

A graduate student is recruited to work on a project on developing field evaluation of soil health tool for New Brunswick (NB), Canada. The student will join a diverse team of researchers to: 1) develop, adapt and test different field methods for evaluating a set of selected soil health indicators; 2) compile from different data sources to develop a provincial database for NB for the selected soil health indicators; 3) develop and test an online interface as a tool for end users.

On top of the academic staff in University of New Brunswick (UNB), the student will work closely with researchers and professionals from the federal government (Agriculture and Agri-Food Canada), the NB provincial government (Department of Agriculture, Aquaculture and Fisheries) and several professional organizations in the agricultural sectors (such as the NB Soil & Crop Improvement Association and the Agricultural Alliance of NB). Through this program, the student will obtain training and experiences on soil health evaluation, soil mapping, GIS, program coding, agri-environmental assessment techniques.

Position description

- The position will be based in UNB (Fredericton), in collaboration with the Fredericton Research and Development Centre (FRDC) of Agriculture and Agri-Food Canada (AAFC)
- The position will be open in April, 2025 until it is filled
- Supervisors: Dr. Fan-Rui Meng in Forestry & Environmental Management, UNB and Dr. Sheng Li in FRDC
- The program can be tailored to at either the Master or PhD level, depending on the qualification of the candidate
- Stipend: full scholarship on UNB standard
- The candidate is encouraged to apply for additional scholarships and teaching assistantships provided by UNB

Requirement

- Meet UNB admission requirement (<https://www.unb.ca/gradstudies/admissions/index.html>)
- For international applicant, meet UNB graduate studies' English language proficiency requirement ([Graduate Studies | Admissions | International Applicants | UNB](#))
- Major in soil science, agronomy, or a relevant area of agri-environmental or natural resource science
- Background and research experiences on soil health, mapping, program coding and agri-environmental modeling are considered assets
- Willingness to work in both field and laboratory settings
- Willingness to travel and work in remote locations

Application

- A CV describing research interests, qualifications and experiences
- Transcript (unofficial transcript is acceptable at the application stage)
- Contact information for three references
- Email to Dr. Sheng Li (Sheng.Li@agr.gc.ca)



Canada



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Agri-Food Canada

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