

Research Associate

Position Details

Position Information

Position Title	Research Associate
Department/Unit	Plant, Food and Envir Sciences
Location	Truro
Posting Number	S171-19
Employee Group	NSGEU Local 77
Position Type	Term
Duration of Contract (if applicable)	One (1) year
Employment Type	Full Time
Full-time Equivalency (FTE)	1.0
Salary	\$26.48 – \$29.10 per hour (\$44,758 - \$49,184 per annum, 32.5 hours per week).
Classification	RE03

Provisional Statement

About Dalhousie University

Dalhousie University is Atlantic Canada's leading research-intensive university and a driver of the region's intellectual, social and economic development. Located in the heart of Halifax, Nova Scotia, with an Agricultural Campus in Truro/Bible Hill, Dalhousie is a truly national and international university, with more than half of our 19,000 students coming from outside of the province. Our 6,000 faculty and staff foster a vibrant, purpose-driven community, that celebrated 200 years of academic excellence in 2018.

Job Summary

The Faculty of Agriculture, Dalhousie University is a small research-intensive campus located in Truro, NS. Offering technical, undergraduate and graduate programs in agriculture, environment and related life and social science disciplines, the Faculty of Agriculture educates future leaders and generates knowledge and innovative solutions for healthy, sustainable societies. Reporting to the Principal Investigators, the Research Associate will conduct in-depth research activities focused on digital soil mapping and whole farm carbon balance models as part of a regional, AAFC funded, Agricultural Greenhouse Gases Program project.

Key Responsibilities

- Design a framework for field-scale carbon assessments using digital soil mapping and novel remote sensing techniques.
- Explore the use of LiDAR-derived data as well as data from other remote sensors on selected farms throughout Nova Scotia.
- Assess quality of data to be analyzed and utilized for digital soil mapping and whole farm modelling.
- Model farm carbon balances as influenced by farm management regime on selected Nova Scotia commercial farms, using HOLOS or farmDESIGN.

- Communicate and coordinate research activities with research team and project partners (industry, government).

- Prepare and submit manuscripts for publication in peer-reviewed journals.

Note

Periodic travel to farm sites across Nova Scotia will be required.

All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority.

Qualifications

PhD in digital soil mapping plus approximately one to two years relevant experience (or equivalent combination of training and experience). Demonstrated digital soil mapping and machine learning experience, including publication in peer-reviewed journals, is essential. Experience and understanding of relevant model and software programs, e.g. HOLOS or farm DESIGN, ArcGIS, R, would be considered a strong asset. Must have demonstrated experience in and understanding of soil science. Strong computer skills in Word, Excel and statistical software also required. Must have the demonstrated ability to complete research work independently. Strong communication (verbal and written) skills, and the ability to work with a wide variety of academic, industry, farm and government partners is essential.

Job Competencies

Additional Information

Dalhousie University supports a healthy and balanced lifestyle. Our total compensation package includes a defined benefit pension plan, health and dental plans, an employee and family assistance program and a tuition assistance program.

Application Consideration

Bargaining unit employees for NSGEU local 77 are given first consideration and will be notified regarding the status of their application. All other applicants will be considered when there is no qualified internal candidate.

We thank all applicants for their interest, however, only candidates selected for an interview will be contacted.

Diversity Statement

Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. The university encourages applications from Indigenous persons, persons with a disability, racially visible persons, women, persons of minority sexual orientations and gender identities, and all candidates who would contribute to the diversity of our community. For more information, please visit www.dal.ca/hiringfordiversity.

Posting Detail Information

Number of Vacancies

One

Open Date

10/09/2019

Close Date

11/11/2019

Open Until Filled

No

Special Instructions to Applicant

Quick Link for Direct Access to Posting

<http://dal.peopleadmin.ca/postings/2160>

Supplemental Questions

Required fields are indicated with an asterisk (*).

Documents Needed to Apply

Required Documents

1. Résumé / Curriculum Vitae (CV)

Optional Documents

1. Cover Letter