Tenure Track Position in climate change and greenhouse gases in relation to sustainable soil management in agriculture

Numéro d'offre

12126

Job posting period

February 23 to September 30, 2023

Workplace

Faculty of Agriculture and Food Sciences
Department of Soil Science and Agrifood Engineering

General information

A privileged living environment in the heart of Quebec City and the first French-language university in North America, Université Laval is a major university open to the world and recognized for its culture of excellence in teaching and research.

The Department of Soil and Agrifood Engineering invites applications for a regular professor position in the following field: Climate change and greenhouse gases in relation to sustainable soil management.

The Department is made up of a team of 19 professors who supervise approximately 500 undergraduate students and around 100 graduate students. The Department offers several study programs of undergraduate degrees, including agronomy, agro-environmental engineering and food engineering and at the graduate degree in soil and environmental sciences and in agri-food engineering.

Job Description

1. Develop, participate and teach courses on greenhouse gases from agricultural activities and their effects on climate change as well as the effect of soil management methods and production systems in mitigating their emissions. Field of investigation and activities should also look to ways to improve the resilience of production systems in the face of climate change, at the levels of the three training cycles.
2. Develop an original research program focusing on the development of a detailed understanding of the production of greenhouse gases in the agroecosystem, the movement of gases in soil and biosphere-atmosphere interactions in agricultural systems, including modern techniques for measuring greenhouse gas emissions, their effects on the environment, and ways to mitigate or reduce emissions. The incumbent is also expected to study soil management methods allowing adaptation to climate change while mitigating greenhouse gas emissions and the ecological footprint of agricultural production systems.
3. Participate in the supervision of students at the levels of the three training cycles.
4. Contribute to the promotion of research activities in the field of climate change and greenhouse gas management in connection with sustainable soil management in agriculture.
5. Participate in the life of Université Laval.

Selection criterias

The selected person must hold a Ph.D. (doctorate or its equivalent) in the field of climate change and greenhouse gases (their formation and movement) in relation to the sustainable management of soils and an undergraduate degree in agricultural sciences, natural sciences or engineering.

Being a member (agr.) of the Ordre des agronomes du Québec (the Québec provincial order for professional agronomist) or eligible to become a member will be considered an asset.

As the teaching activities are carried out in French, the person selected must or will have to be able to express himself in writing and orally in French or take the necessary measures to do so within a maximum period of three years after the date of entry into function.

Candidates who fit the description and meet the qualifications of the position will be selected based on the following criterias :

1. Publications file comprising several relevant articles published in peer-reviewed scientific journals.
2. Relevant work experience (research and/or teaching) in the field of biophysics related to biosphere-atmosphere interactions, formation and movement of gases in soils; agricultural practices aimed at reducing greenhouse gas emissions in agroecosystems.
3. Having completed a postdoctoral fellowship or having proven experience in academic and/or industrial research is an asset.
4. Able to integrate training programs related to the agricultural environment under the department of soil science and agrifood engineering.
5. Willingness to collaborate with the University's pedagogical services to prepare quality teaching (several modes of teaching: in class, hybrid, distance learning).

6. Take charge of and collaborate in the teaching of courses on the production and movement of gases in agricultural systems and the reduction of greenhouse gas emissions in such system (undergraduate and graduate courses to be developed) and contribute to other courses in soil science and fertilization.
7. Willingness to integrate into the research network in the field of the position sought.

Hiring and treatment

Conditions

Salary according to the current collective agreement.

Candidature

Application deadline : September 30, 2023

Job starting date : January 1, 2024

Interested persons are requested to submit, a dossier containing :

- A detailed curriculum vitae.
- Transcripts (undergrad in graduate degrees).
- A letter of introduction (maximum 3 pages) highlighting your qualifications in the field of greenhouse gases and sustainable soil management, your vision for developing your field of research and describing your motivations for exercising the function of professor as well as your three major contributions since the last five years.
- Three (3) scientific articles recently published or accepted in peer-reviewed journals in the research field of the position to be filled.
- Three (3) reference letters directly from the signatories, attesting to your skills in the field of climate change and greenhouse gases in relation to sustainable soil management in agriculture sent by email to: damien.de.halleux@fsaa.ulaval.ca

Valuing equity, diversity and excellence, Université Laval is strongly committed to provide an inclusive work and living environment for all its employees. For Université Laval, diversity is a source of wealth, and we encourage qualified individuals of all origins, sexes, sexual orientations, gender identities or expressions, as well as persons with disabilities, to apply.

Université Laval also subscribes to an equal access to employment program for women, members of visible or ethnic minorities, Aboriginal persons and persons with disabilities. Adaptation of the selection tools can be offered to persons with disabilities according to their needs and in complete confidentiality. In accordance with Canadian immigration requirements, priority will be given to qualified individuals with Canadian citizenship or permanent residency.