



Faculté des sciences de l'agriculture et de l'alimentation  
Département des sols et de génie agroalimentaire

CHAIRE DE LEADERSHIP  
EN ENSEIGNEMENT  
des bâtiments agricoles durables



**JOB OFFER FOR PHD HOLDER**

**POSTDOCTORAL FELLOW:**  
agricultural and biosystems  
engineering

**RESEARCH SECTOR :**  
Precision livestock farming

## PRESENTATION

The **Chair in Educational Leadership on Sustainable Agricultural Buildings (CLEBAD)** aims to support informed investments in animal production. In addition to its mission of developing highly qualified engineers able to adequately advise producers, it intends to produce and transfer new knowledge on cutting-edge and competitive rural infrastructures. The Chair wishes to recruit **one (1) post-doctoral fellow (PDF)** to assist in pursuing its activities.

## DUTIES

Under the supervision of the researcher, and in collaboration with the Chair's partners (IRDA, CDPQ, CRSAD, AAFC and other universities), the PDF will **participate in ongoing research projects on the automatic and continuous monitoring and control of animal welfare and the environmental footprint of livestock production** (dairy cattle, pigs and poultry). More specifically, the PDF will:

- Assist in writing new funding applications;
- Conduct critical literature reviews on topics of interest;
- Plan and implement original and functional experimental setups;
- Install measurement equipment and conduct regular data collection on farms;
- Process and analyze the results obtained;
- Write reports to granting agencies, extension and scientific articles;
- Supervise the work of undergraduate and graduate students.

The PDF will also participate in the **writing of technical sheets** and in the **preparation of professional training sessions** on topics related to animal production engineering (ventilation, manure management, etc.). He or she will assist the researcher in publishing relevant and informative content on the website and Facebook pages of the Chair.

## REQUIREMENTS

- Bachelor's degree and PhD in agricultural/biosystems engineering, agronomy, mechanical engineering, computer engineering or their equivalents in a field related to precision agriculture applied to livestock;
- Good knowledge of livestock production in Quebec and relevant experience in animal production, an asset;
- Good knowledge of some of the following methods: instrumentation and control, automation, data acquisition, analysis and processing, artificial intelligence, computer vision and agricultural robotics;
- Good knowledge of statistical methods and tools (SAS or R) and Python programming;
- Valid driver's license and ability to travel regionally;
- Good physical ability and resistance;
- Ability to work in a team;
- Sense of organization and responsibility and good analytical and synthesis skills;
- Autonomy, versatility, dynamism and initiative;
- Bilingualism in French and English, spoken and written, and Spanish, an asset.

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## CONDITIONS

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- Salary: according to the collective agreement ([https://www.rh.ulaval.ca/sites/default/files/fichiers/Stagiaires%20postdoctoraux/salaires\\_post\\_doc.pdf](https://www.rh.ulaval.ca/sites/default/files/fichiers/Stagiaires%20postdoctoraux/salaires_post_doc.pdf)), but possibility to apply for additional grants during the term (e.g., Mitacs Accélération);
- Contract duration: 1 year (possibility of renewal);
- Schedule: 35 h/week, generally from Monday to Friday, sometimes early in the morning or later return, sometimes on weekends and sometimes stay away (to be agreed with the immediate supervisor according to the needs of the research projects);
- Work on the farm and outside in sometimes difficult conditions (heat, rain, odors, etc.);
- Accommodation, meals and transportation expenses covered by the employer for on-field work.

## WORKPLACES

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According to the needs of the research projects:

- From home;
- Université Laval, 2425, rue de l'Agriculture, Québec (QC) G1V 0A6;
- Centre de recherche en sciences animales de Deschambault (CRSAD), 120-A, chemin du Roy, Deschambault (QC) G0A 1S0;
- Research and Development Institute for the Agri-Environment (IRDA), 2700, rue Einstein, Québec (QC) G1P 3W8.

## APPLY

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If you are interested in this challenge, please submit your application (resume, cover letter, transcripts and names of 2 references) by email to Sébastien Fournel ([sebastien.fournel@fsaa.ulaval.ca](mailto:sebastien.fournel@fsaa.ulaval.ca)). Applications will be accepted until the position is filled, but those received before January 31, 2022 are sure to be considered.

## INFORMATION

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A privileged living environment in the heart of Quebec City, Université Laval is a major comprehensive university recognized for its culture of excellence in teaching and research. **Valuing diversity, Université Laval invites all qualified candidates to apply, especially women, members of visible and ethnic minorities, aboriginal people and people with disabilities.**

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