

Assistant Professor in Embedded Systems for Smart  
Agriculture  
University of Calgary

Direct Link: <https://www.AcademicKeys.com/r?job=209093>

Downloaded On: Dec. 6, 2023 8:23am

Posted Apr. 14, 2023, set to expire Jan. 15, 2024

<b>Job Title</b>	Assistant Professor in Embedded Systems for Smart Agriculture
<b>Department</b>	Electrical and Software Engineering
<b>Institution</b>	University of Calgary Calgary, Alberta
<b>Date Posted</b>	Apr. 14, 2023
<b>Application Deadline</b>	May 17, 2023
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Assistant Professor
<b>Academic Field(s)</b>	Computer Engineering
<b>Job Website</b>	<a href="https://engg.careers.ucalgary.ca/jobs/12508444-assistant-professor-in-embedded-systems-for-smart-agriculture">https://engg.careers.ucalgary.ca/jobs/12508444-assistant-professor-in-embedded-systems-for-smart-agriculture</a>
<b>Apply Online Here</b>	<a href="https://engg.careers.ucalgary.ca/jobs/12508444-assistant-professor-in-embedded-systems-for-smart-agriculture">https://engg.careers.ucalgary.ca/jobs/12508444-assistant-professor-in-embedded-systems-for-smart-agriculture</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

The **Department of Electrical and Software Engineering** at the University of Calgary is pleased to invite applications for a **tenure-track Assistant Professor** position in **Embedded Systems for Smart Agriculture** with an **anticipated start date of September 1, 2023**.

Candidates with an earned doctoral degree (or equivalent) in Electrical Engineering or a closely related

Assistant Professor in Embedded Systems for Smart  
Agriculture  
University of Calgary

Direct Link: <https://www.AcademicKeys.com/r?job=209093>

Downloaded On: Dec. 6, 2023 8:23am

Posted Apr. 14, 2023, set to expire Jan. 15, 2024

discipline and demonstrated excellence in research and teaching are invited to apply.

At the **University of Calgary**, smart agriculture is aligned with the University's **One Health** research theme and supported by growing partnerships between researchers in **the Schulich School of Engineering** and the **Faculty of Veterinary Medicine**.

The University of Calgary is also home to a unique facility to support smart agriculture: W.A. Ranches is working cow-calf ranch with a land base of 19,000 acres for cattle, farmland for feed production, and wildlife habitat. This unique facility enables us to conduct cutting-edge research on a bona fide working ranch and provides endless teaching opportunities.

The successful candidate should be familiar with current challenges for the agricultural industry across the supply chain and opportunities for technologies. The development and/or application of smart technologies along the agri-food value chain includes technologies for automated operations, tools for monitoring or analysis aimed at optimizing production, and traceability technologies for supply chains.

Within the broad topic of Embedded Systems for Smart Agriculture, experience in one or more of the following areas is required:

- design and integration of embedded systems for smart agriculture applications
- applications of artificial intelligence and machine learning for smart agriculture
- development of novel sensing and mapping strategies for smart agriculture
- design of durable, energy-efficient, secure and reliable embedded systems
- design of sensing hardware and hardware implementation
- optimization and development of embedded systems technologies such as system on chip (SOC), FPGA, and RISC-V
- scalable algorithm and embedded software development using real-time operating systems and machine level firmware

Experimental experience implementing embedded systems is required.

## Position Requirements

The successful candidate will demonstrate:

- a record of high-quality research and publications
- the potential to establish an externally funded research program, and to achieve international

Assistant Professor in Embedded Systems for Smart  
Agriculture  
University of Calgary

Direct Link: <https://www.AcademicKeys.com/r?job=209093>

Downloaded On: Dec. 6, 2023 8:23am

Posted Apr. 14, 2023, set to expire Jan. 15, 2024

recognition within five years

- the alignment between their research interests and the research priorities of the Schulich School of Engineering and the University of Calgary
- the ability to attract and develop excellent trainees, students, and future researchers
- ability to teach a range of undergraduate and graduate courses related to the topics in the position description above
- excellent written and oral communication skills
- a commitment to Equity, Diversity, and Inclusion in Engineering

Candidates should be eligible for registration as a Professional Engineer with the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

Experience working in industry or on industrial projects is considered an asset.

### How to Apply

Interested candidates are encouraged to submit an application online via 'Apply Now' at the following link:

<https://engg.careers.ucalgary.ca/jobs/12508444-assistant-professor-in-embedded-systems-for-smart-agriculture>

Please be aware that the application process allows for only four attachments. Your four application attachments should be organized to contain the following (it is suggested that you merge these documents into a single pdf):

- Cover letter and curriculum vitae, including the name and contact information of three referees
- Statement of research interests, accomplishments and vision (maximum 2 pages)
- Statement of teaching philosophy (maximum 2 pages)
- Statement on Equity, Diversity and Inclusion (maximum 2 pages)

-

Questions may be addressed to:

Dr. Andy Knight

Assistant Professor in Embedded Systems for Smart  
Agriculture  
University of Calgary

Direct Link: <https://www.AcademicKeys.com/r?job=209093>

Downloaded On: Dec. 6, 2023 8:23am

Posted Apr. 14, 2023, set to expire Jan. 15, 2024

Head, Department of Electrical and Software Engineering

[andy.knight@ucalgary.ca](mailto:andy.knight@ucalgary.ca)

**Applications are accepted until May 17, 2023**

The University of Calgary has launched an institution-wide [Indigenous Strategy](#) in line with the foundational goals of [Eyes High](#), committing to creating a rich, vibrant, and culturally competent campus that welcomes and supports Indigenous Peoples, encourages Indigenous community partnerships, is inclusive of Indigenous perspectives in all that we do.

*As an equitable and inclusive employer, the University of Calgary recognizes that a diverse staff/faculty benefits and enriches the work, learning and research experiences of the entire campus and greater community. We are committed to removing barriers that have been historically encountered by some people in our society. We strive to recruit individuals who will further enhance our diversity and will support their academic and professional success while they are here. In particular, we encourage members of the designated groups (women, Indigenous peoples, persons with disabilities, members of visible/racialized minorities, and diverse sexual orientation and gender identities) to apply. To ensure a fair and equitable assessment, we offer accommodation at any stage during the recruitment process to applicants with disabilities. Questions regarding [diversity] EDI at UCalgary can be sent to the [Office of Equity, Diversity and Inclusion](#) ([equity@ucalgary.ca](mailto:equity@ucalgary.ca)) and requests for accommodations can be sent to Human Resources ([hrhire@ucalgary.ca](mailto:hrhire@ucalgary.ca)).*

*All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. In this connection, at the time of your application, please answer the following question: Are you a Canadian citizen or a permanent resident of Canada? (Yes/No)*

### **Additional Information**

To learn more about academic opportunities at the University of Calgary and all we have to offer, view our [Academic Careers website](#). For more information visit [Careers in the Schulich School of Engineering](#).

Assistant Professor in Embedded Systems for Smart  
Agriculture  
University of Calgary

Direct Link: <https://www.AcademicKeys.com/r?job=209093>

Downloaded On: Dec. 6, 2023 8:23am

Posted Apr. 14, 2023, set to expire Jan. 15, 2024

The University strongly recommends all faculty and staff are fully vaccinated against COVID-19.

### **About the Schulich School of Engineering**

The Department of Electrical and Software Engineering, in the Schulich School of Engineering, has over 50 faculty members and is teaching approximately 1400 undergraduate and 500 graduate students. We offer major undergraduate programs in Electrical Engineering and Software Engineering, with minors in Computer, Digital, Biomedical, Mechatronics, Aerospace and Environmental Engineering.

The Schulich School of Engineering strategic plan, Schulich Momentum, identifies the vision of the school. As a community defined by energy, enterprise and excellence - both on our campus and beyond - we will be recognized for enhancing our global research impact and driving innovation, for expanding access to and inclusivity in engineering, for our contributions towards Truth and Reconciliation, and for enriching student success and experience. The Schulich School of Engineering is a key contributor the University of Calgary Growth Through Focus plan, which emphasizes transdisciplinary scholarship, deeper community integration, and future-focused program delivery.

### **About the University of Calgary**

The University of Calgary is Canada's leading next-generation university – a living, growing and youthful institution that embraces change and opportunity with a can-do attitude. Located in the nation's most enterprising city, the university is making tremendous progress on its Eyes High journey to be recognized as one of Canada's top five research universities, grounded in innovative learning and teaching and fully integrated with the community it both serves and leads. The University of Calgary inspires and supports discovery, creativity and innovation across all disciplines. For more information, visit [ucalgary.ca](http://ucalgary.ca).

### **About Calgary, Alberta**

Assistant Professor in Embedded Systems for Smart  
Agriculture  
University of Calgary

Direct Link: <https://www.AcademicKeys.com/r?job=209093>

Downloaded On: Dec. 6, 2023 8:23am

Posted Apr. 14, 2023, set to expire Jan. 15, 2024

Calgary is one of the world's cleanest cities and has been named one of the world's most livable cities for years. Calgary is a city of leaders - in business, community, philanthropy and volunteerism. Calgarians benefit from a growing number of world-class dining and cultural events and enjoy more days of sunshine per year than any other major Canadian city. Calgary is less than an hour's drive from the majestic Rocky Mountains and boasts the most extensive urban pathway and bikeway network in North America.

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Jennifer Kilback  
Electrical and Software Engineering  
University of Calgary  
2500 University Drive NW  
Calgary, AB T2N 1N4  
Canada

**Phone Number** 4032205806  
**Contact E-mail** [ese@ucalgary.ca](mailto:ese@ucalgary.ca)