

Postdoctoral Researcher in Energy Systems and Carbon Capture

Institution: University of Victoria, Institute for Integrated Energy Systems (IESVic)

Location: Victoria, British Columbia, Canada

Appointment Type: Full-Time, 1-yr with potential for renewal

Start Date: Available Immediately

Position Overview

The Institute of Integrated Energy Systems (IESVic) at the University of Victoria invites applications for a Postdoctoral Fellow (PDF) to join our dynamic and interdisciplinary research team. The successful candidate will help direct innovative research at the intersection of carbon capture and energy systems, helping advance both theoretical and applied aspects.

Reporting to the Director, the PDF will use their knowledge and skills to enhance the IESVic mission. The Fellow will support initiatives of strategic importance through development, facilitation and execution of research activities. The Fellow will use their knowledge of energy system decarbonization, electrification, alternative fuels, policy, energy conversion, carbon capture, and behaviour to accelerate the transition of the Canadian economy to a more sustainable future. Enabled by a forward-looking, philanthropic donation, this is a unique opportunity to be a leader, and team member, working on a vital global challenge.

This position offers an excellent opportunity for early-career researchers to expand their expertise, build new capacity, publish high-impact work, and collaborate with leading scientists in a supportive and intellectually stimulating environment.

Key Responsibilities

- Conduct independent and collaborative research aligned with IESVic's focus on sustainable energy systems that are reliable, cost-effective and socially acceptable
- Develop and conduct a research project on atmospheric or oceanic carbon capture, either directly, or factors that will enable carbon capture more efficiently
- Publish research findings in peer-reviewed journals and present at academic conferences
- Contribute to grant writing and preparation of research proposals
- Mentor graduate and undergraduate students
- Collaborate with interdisciplinary teams and external partners
- Support IESVic Director to increase research activities and associated impact

Minimum Qualifications

- Ph.D. in relevant field to energy systems, carbon capture and sustainability (Engineering, Chemistry, Biology, Social Sciences, etc.). Needs to be completed to be eligible
- Strong record of scholarly publications or demonstrated research potential
- Expertise in transdisciplinary research, numerical modelling, and carbon capture techniques.
- Excellent written and verbal communication skills

- Ability to work both independently and as part of a collaborative research team
- Evidence of the desire, willingness, and ability to collaborate broadly.

Preferred Qualifications

- Experience with carbon capture, sequestration or related activities
- Demonstrated success in securing research funding or fellowships
- Experience mentoring undergraduate or junior graduate students.
- Strong interdisciplinary collaboration skills
- Familiarity with energy systems and renewable energy technologies.

Compensation and Benefits

- Competitive salary commensurate with experience (\$60,000 - \$80,000 per year)
- Comprehensive benefits package (extended health & dental)
- Professional development and training opportunities
- Access to state-of-the-art research facilities and resources
- Support for conference travel and publication costs
- Casual dress, paid time-off, excellent work-life balance.

Application Process

Applicants should submit the following materials:

1. Cover letter outlining research interests and implications for carbon capture. Max. 2 pages.
2. Curriculum Vitae (CV)
3. Contact information for 2x professional references
4. (Optional) Sample publications or writing samples

Application Deadline: Open until filled.

Applications should be submitted as a single PDF document, via email to IESVic Administrative Coordinator, iesvic@uvic.ca.

Equal Opportunity Statement

UVic is committed to upholding the values of equity, diversity, inclusion and [human rights](#) in our living, learning and work environments. In pursuit of our values, we seek members who are eager to actively participate in that shared responsibility. We actively encourage applications from members of [historically and systemically marginalized groups](#). Read our [full equity statement](#).

Contact Information

For questions regarding this position, please contact:

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