University of Victoria
Department of Civil Engineering | SESIT Group
University House 5, Room 110, PO Box 1700, STN CSC, Victoria, BC, V8W 2Y2, Canada
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Grid Modeller - Energy Systems

Job Title: Grid Modeller – Energy Systems

Location: This is an in-person position based in Victoria, BC. Candidates must be willing to relocate.

Salary: $80,000–$100,000 CAD, commensurate with experience

Contract Duration: 12 months (with potential for extension)

About the Role

The SESIT Group at the University of Victoria is seeking a Grid Modeller to support cutting-edge research on electricity systems, grid integration, and the energy transition. This role will contribute to the development and application of advanced modelling tools within the M3 Modelling Platform to inform real-world policy and infrastructure decisions in Canada.

The successful candidate will work on electricity system modelling with a focus on capacity expansion and production cost modelling. You will contribute to analyses that assess system costs, reliability, emissions, and the value of transmission and grid integration across jurisdictions.

Key Responsibilities

- Develop and run capacity expansion and production cost models
- Analyze electricity system scenarios, including transmission expansion and decarbonization pathways
- Translate modelling results into clear insights for both technical and policy audiences
- Collaborate closely with an interdisciplinary team of researchers, students, and external partners
- Contribute to the development of SESIT's electricity system agent-based modelling tools

Qualifications

- Master's or PhD with a focus on power system modelling or a closely related field
- Experience with capacity expansion and/or production cost modelling tools
- Proficiency in Python for data analysis and model development
- Strong communication skills, with the ability to engage both technical and non-technical audiences
- Collaborative, team-oriented mindset

About the Project & Team

The role is based within the **SESIT** (Sustainable Energy Systems Integration & Transitions) research group at the University of Victoria (https://sesit.cive.uvic.ca/), Department of Civil Engineering, a leader in interdisciplinary energy modeling and policy research. The role will directly report to SESIT's research group manager and will be academically supervised by Dr. Madeleine McPherson.

You will also contribute to the **Open Insights** initiative (openinsights.ca), a multi-institutional initiative aiming to bring greater transparency and participation to energy and climate modeling in Canada.

How to Apply

To apply, please complete the application form below:

Grid Modeller Application Form – Fill out form

The form will ask you to provide your contact information, qualifications, relevant experience, and links to supporting materials (e.g., LinkedIn, Google Scholar, GitHub, publications, or professional portfolio).

After submitting the form, please email your resume or CV (PDF preferred) to **nancyamado@uvic.ca** with the subject line: Application – Grid Modeller – [Your Full Name]

Your application will be considered complete once both the application form and your resume/CV have been received.

Application Deadline: August 28, 2026.

Applications will be reviewed on a rolling basis. We encourage interested candidates to apply early, as the competition may close before the deadline if a suitable candidate is identified. Only shortlisted candidates will be contacted.

We welcome applicants from diverse backgrounds and are committed to building a team that reflects Canada's diversity.