

## Who we are

The ReBuild Initiative is an ecosystem of partner-driven research projects that focus on the decarbonization of Canada's built environment. ReBuild aims to be a catalyst in the emerging retrofit economy by linking together commercial and community partners with passionate researchers.

ReBuild is run by the Energy in Cities research group at the University of Victoria. We are striving to cultivate passionate individuals who will become experts in the fields of building performance analysis and machine learning. Our goal is to do cutting edge research and cultivate the next generation of highly qualified professionals at the intersection of building performance and cutting-edge analytics.

## Who you are

You are an individual who can work independently, while also collaborating with a larger group towards our community partnership goals. You have the ability to adapt and overcome the hurdles and uncertainties that come along with pursuing novel research. You see the potential, or would like to become a subject matter expert, of machine learning and AI to support the efforts in sustainability.

You are passionate about sustainability, building performance or machine learning and want to help Canada meet its climate goals.

Please apply if you have some of the following attributes:

### Technical Skills

- Relevant undergraduate or master's degree (*required*). Examples include engineering, computer science, physics and technical aspects of architecture. If you believe you have a relevant background, you are encouraged to apply.
- Software development experience, with a strong preference for Python.
- Building energy modeling, with preference for EnergyPlus experience.
- Machine learning or statistical model development.
- Hands-on experience with building design, analysis or construction.

### Non-Technical Skills

- Fluent in English (*required*)
- Strong written and verbal communication skills
- Have published research papers or authored technical reports

## Why you should join us

You will further your academic experience and qualifications, and position yourself at the forefront of changes within the Canadian retrofit economy. Positions are funded at a level comparable with NSERC scholarships, and top-up funding is available to those with scholarships. You will have exciting opportunities to apply your research to real-world problems in collaboration with industry and governmental partners.

The Energy in Cities group is located at the University of Victoria on the traditional territory of the lək'wəŋən peoples. Victoria is a hub for sustainability, high-tech industry and government, and is located among the beautiful landscapes of British Columbia.