

SUSTAINABILITY SCHOLARS PROGRAM

Summer 2020

The UBC Sustainability Initiative (USI) is pleased to offer current UBC graduate students the opportunity to work on funded sustainability internship projects. Successful candidates work under the mentorship of a partner organization, and are immersed in real world learning where they can apply their research skills and contribute to advancing sustainability across the region.

- Visit the [Sustainability Scholars Program website](#) to learn [how the program works](#) and to [apply](#).
- Be sure to review the [application guide](#) to confirm your eligibility before applying.
- **Applications close at midnight on Sunday March 8, 2020.**

Research project title: Heat pump retrofit benefits and barriers for Multi-Unit Residential Buildings (MURBs) in the social housing sector

Sustainability Goal or Operations Plan objective

Building Energy Efficiency

Long Term Goal: Achieve 50% GHG emission reduction by 2030 and subsequent Clean BC targets.

Project description

- Review and compile information from various energy modeling/energy studies and renovation projects targeting different levels of electrification and GHG emission reductions, for the purpose of evaluating what is the potential for implementation across the social housing sector/portfolio.
- The main focus will be to find the barriers and challenges to install heat pumps for different services (space heating, domestic hot water heating, ventilation, cooling), and how feasible they are to install and maintain in different building types and locations.
- Determine the areas of opportunity to overcome the existing barriers and what players need to be involved.

Deliverables

- A final report, containing a summary of completed work with recommendations, complemented by a final presentation to key stakeholders.
- Detailed description of all barriers and challenges and the potential solutions for each building category and or climate zone.
- A final report [or Executive Summary] for the UBC Sustainability Scholars online project library.

Time Commitment

- This project will take **250** hours to complete.
- This project must be completed between May 4 and August 14, 2020
- The Scholar is to complete hours between 8:30 AM and 4:30 PM, Monday to Friday, approximately **15** hours per week.
- The scholar should be available for weekly team meetings along with a weekly one-on-one meeting with the mentor.

Required/preferred Skills and Background

- Excellent research and writing skills
- Demonstrated interest in sustainability
- Experience conducting stakeholder engagement events, including facilitation skills, is an asset
- Familiarity with research methodologies and survey techniques
- Statistical analysis
- Excellent public speaking and presentation skills
- Strong analytical skills
- Ability to work independently
- Deadline oriented
- Project management and organizational skills
- Building science background
- Strong technical and drafting skills
- Demonstrated experience in energy analysis
- Familiarity with benchmarking methods and tools
- Comfortable interacting with strangers to conduct public/in person surveys
- Familiarity preparing feasibility studies
- Experience with financial modelling and analysis
- Design and layout skills an asset

Applications close **midnight Sunday March 8, 2020.**

Apply here: <http://sustain.ubc.ca/scholarsapply>

Contact Karen Taylor at sustainability.scholars@ubc.ca if you have questions

Useful Resources

Below are some links to useful resources to help you with your resume and cover letter (there are many more online). Some of these resources also provide information on preparing for your interview.

<https://students.ubc.ca/career/career-resources/resumes-cover-letters-curricula-vitae>

<https://www.grad.ubc.ca/current-students/graduate-pathways-success>

<https://www.grad.ubc.ca/cover-letter-cv-resume-templates-ubc-career-services>

