

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 February 2, 2020.**

Research project title: Implementing the BC Energy Step Code in Part 3 (non-residential) buildings in the Township of Langley

Sustainability Goal or Operations Plan objective

Green Buildings Leader, Climate Action Plan Implementation

Long Term Goal: Part 3 buildings in the TOL meet or exceed the BC Energy Step Code; TOL incentive programs support green building development

Project description

The Township of Langley, in their June 11, 2018 *Report to Mayor and Council*, identified the need for research on the BC Energy Step Code for new Part 3 (non-residential) buildings to be undertaken once the Province develops technical requirements for these buildings. Given the imminent release of these requirements in December 2019, the Township understands that researching the implementation of Part 3 (non-residential) performance standards is essential to the successful adoption of these new requirements.

A case study of other BC municipalities which already have policies in place for Part 3 buildings will be conducted, as well as research and analysis of which rebates/incentives are the most successful for these programs. In the case there are too few municipalities in BC who have implemented policies and strategies resulting in a successful implementation of BC Energy Step Code for Part 3(non-residential) buildings, municipalities outside of BC and Canada may be considered.

Based on this research, the Township will have a set of proven strategies and an overarching plan on how to successfully implement the BC Step Code for Part 3 (non-residential) buildings and support the building community with education, capacity-building, and effective incentive programs.

Scope of Work:

- Identify jurisdictions around BC that already have Part 3 building energy efficiency/Step Code requirements
- Detail strategies taken by jurisdictions to implement BC Energy Step Code for Part 3 (non-residential) buildings, including successes and lessons learned
- Identify strategies that would have the greatest potential for successful implementation in the Township of Langley (TOL)

- Conduct desktop research and interviews with staff in key jurisdictions to understand their programs and identify factors for success in implementing Part 3 (non-residential) building energy efficiency/Step Code requirements
- Analyze incentives included in these programs and uptake strategies
- Internal review: work with City staff to understand present conditions of Part 3 (non residential) building energy efficiency in the TOL
- Prepare a report that gives an overview of other municipalities' Part 3 (non-residential) building energy efficiency and/or Step Code requirements/programs, success stories and lessons learned, analysis of incentives offered for each program (if any), and provides recommendations to the TOL for our own Part 3 (non-residential) building energy efficiency program
- Conduct builder outreach to understand their experiences and lessons learned from Part 3 (non-residential) energy efficiency/Step Code policies in other jurisdictions (with direct support from TOL staff)
- Forecast of growth rates of Part 3 (non residential) buildings in the TOL and analysis of the financial implications of implementing BC Energy Step Code for Part 3 buildings (non-residential), energy savings compared to the base case of not pursuing BC Energy Step Code, and recommendations on funding requirements for Step Code related incentive programs (with direct support from TOL staff)

Deliverables

- A final report that provides a detailed evaluation of other municipalities' Part 3 building energy efficiency and/or Step Code (non-residential) requirements/programs, successes and lessons learned, analysis of incentives offered for each program (if any) and uptake strategies, and gives recommendations to the TOL for our own Part 3 (non-residential) building energy efficiency program
- A final presentation to key TOL stakeholders based on the final report
- A final report [or Executive Summary] for the UBC Sustainability Scholars online project library (will be the same as the first bullet).

Time Commitment

- This project will take **325** hours to complete.
- This project must be completed between May 4 and August 14, 2020
- The Township is open to a flexible work schedule for the Scholar. The Scholar may work offsite for the majority of the project, if they desire, as long as they are available for occasional onsite meetings as necessary. The Township prefers a Scholar adept at managing their own schedule but recommends the Scholar works for approximately 20-22 hours per week.

Required skills:

- Excellent research and writing skills
- Familiarity with research methodologies
- Excellent public speaking and presentation skills
- Strong analytical skills
- Ability to work independently
- Deadline oriented
- Project management and organizational skills
- Familiarity with Microsoft Excel, Word, Powerpoint, and Outlook



Preferred skills:

- Demonstrated experience and interest in Green Buildings
- Demonstrated interest in sustainability
- Knowledge of building mechanical systems
- Experience with financial modelling and analysis
- Familiarity preparing feasibility studies
- Knowledge of the BC Energy Step Code and/or the BC Building Code
- Comfortable interacting with strangers to conduct public/in person surveys
- Statistical analysis
- Design and layout skills

Applications close **midnight Sunday February 2, 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>

The Centre for Student Involvement & Careers will host a resume & cover letter webinar tailored for graduate students on Tuesday, January 21, 2020 from 12:00-1:30. Registration will open approximately two weeks before the webinar, and can be accessed at Careers Online.

