

# UBC SUSTAINABILITY SCHOLARS PROGRAM

## Summer 2019

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### UBC Sustainability Scholars Program 2019

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 organizational sustainability goals.

For more information about the Sustainability Scholars Program and to apply to work on this project, please visit the [Student Opportunities](#) page.

Please review the application guide (PDF) before applying.

Applications close **midnight Monday February 25, 2019.**

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#### Research project title

Developing Lowest Cost Strategies to Achieve Step Code Compliance in Affordable Housing

#### Sustainability Goal or Operations Plan objective

Building Energy Efficiency

Long Term Goal: Create a roadmap to developing affordable net zero ready housing

#### Outline scope of project and why it is of value to your organization. Describe how and when the Scholar's work will be actionable.

- Review and compile costing data from existing step code compliant affordable housing designs and Provincial Energy Step Code costing studies.
- Using the above data, determine the best combination of design features and technologies that will allow projects to achieve step code levels in climate zones four, five, and six at the lowest possible cost.
- Ensure other sustainable strategies such as climate adaptability, minimized embodied energy, and minimized GHG emissions are considered.

#### Deliverables

*Note that a final deliverable (either a full report or, if the report contains confidential information, an executive summary) is required by the end of the program (August 12, 2019). The deliverable will be archived in the online public-facing [Scholars Project Library](#).*

- A final report, containing a summary of completed work with recommendations, complemented by a final presentation to key stakeholders.
- Summary of step code strategies from other builders and world-wide best practices in low energy construction.
- Summary of the barriers to developing low cost energy efficient housing in British Columbia.
- A final report [or Executive Summary] for the UBC Sustainability Scholars online project library.

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### Time Commitment

Please indicate the total numbers of hours your Scholar will need to complete the project, the completion period (between April 29 and August 12), any critical dates for the project, and the optimal schedule for your Scholar's work.

- This project will take **500** hours to complete.
- This project must be completed between April 29, 2019 and August 12, 2019
- The Scholar is to complete hours between [8:30 AM to 4:30 PM, Monday to Friday], approximately **35** 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
- Familiarity with research methodologies and survey techniques
- Statistical analysis
- 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
- Familiarity preparing feasibility studies
- Experience with financial modelling and analysis
- Design and layout skills

Applications close **midnight Monday February 25.**

Apply here:

<https://sustain.ubc.ca/student-opportunities>

To learn more about the program here:

<https://sustain.ubc.ca/ubc-sustainability-scholars-program>

Read the application guidelines to confirm your eligibility to participate in the program here:

<https://sustain.ubc.ca/student-opportunities>

Contact Karen Taylor at [sustainability.scholars@ubc.ca](mailto:sustainability.scholars@ubc.ca) if you have questions.