

UBC SUSTAINABILITY SCHOLARS PROGRAM
Summer 2018

Research project title

Analysis of high performance energy-efficient buildings in the City of North Vancouver (a case study)

Goal or Operations Plan objective

Climate Leadership

Long Term Goal: Eliminate dependence on fossil fuels

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

- Assist in reviewing and analyzing the trove of North Vancouver City-collected data produced by Community Energy Advisors and qualified professionals in regard to energy efficient building measures. This data is for all higher step code buildings under recent, current and near future construction. Energy efficient buildings must be at higher levels of the Step Code (i.e., Steps 3+) or else meet a demonstrably equivalent energy efficiency standard in order to qualify for this case study.
- Help in analyzing what decisions energy experts and builders are making in order for the City of North Vancouver to understand what tradeoffs are contemplated and whether any City regulation barriers to high energy performance construction continue to exist. Identified barriers will potentially be actionable, depending on their scope and whether there would be any impact on other City priorities
- Assist the City in identifying/amending the metrics being tracked going forward (fully actionable).

Deliverables

- A final report, containing a summary of completed work with recommendations, complemented by a final presentation to key stakeholders.
- 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 **April 30, 2018** and **August 10, 2018**

Skill set/background required/preferred

This section will be used to match students with your project. Please be as specific as possible in

- ✓ Excellent research and writing skills.
- ✓ Strong writing skills
- ✓ Familiarity with research methodologies and survey techniques
- ✓ Strong presentation and public speaking skills
- ✓ Strong analytical skills
- ✓ Ability to work independently
- ✓ Demonstrated time management skills
- ✓ Deadline oriented
- ✓ Project management and organizational skills
- ✓ Strong technical skills
- ✓ Familiarity with quantitative research methodologies and implementation
- ✓ Strong technical writing skills
- ✓ Experience with blueprints
- ✓ Understanding of energy efficient construction methods, air barrier technology, mechanical systems