

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: Incorporating Embodied Carbon into Sustainable Decision-Making in Construction at the Vancouver Airport Authority

Sustainability Goal or Operations Plan objective

2020-2024 Environmental Management Plan

Long Term Goal: Net Zero Greenhouse Gas Emissions by 2050

Project description

The outcome of this project will help to determine how the Vancouver Airport Authority (VAA) can calculate embodied carbon emissions in the development of projects, and how to use this information in making decisions that help the airport achieve its target to reach net zero greenhouse gas emissions by 2050.

Scope of Work:

- Conduct a best practice review to determine methods and tools used in calculating embodied carbon in development projects
- Document at least 4 case studies, preferably two at airports, where a project has calculated embodied carbon in a development (i.e., airside project, building)
- Review current VAA development processes to determine how carbon is currently accounted for in projects through desktop research and interviews
- Prepare recommendations for VAA on a framework for calculating embodied carbon in construction and development projects and how the framework could be used for decision-making to promote low carbon alternatives

Deliverables

- A final report, containing a summary of completed work with recommendations, complemented by a final presentation to key stakeholders.
- An 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 [8am and 5pm, Monday to Friday], up to 20 hours per week.
- NOTE – we would be open to a shorter term working more hours per week, if that is the Scholar's preference

Required/preferred Skills and Background

- Excellent research and writing skills
- Familiarity with research methodologies and survey techniques
- Strong analytical skills
- Ability to work independently
- Deadline oriented
- Project management and organizational skills
- Demonstrated experience in greenhouse gas and carbon measurement with regard to carbon accounting in construction and development
- Familiarity with benchmarking methods and tools
- Experience with financial modelling and analysis
- Criminal Record Check required [note that the successful candidate will be reimbursed for reasonable expenses to get a criminal record check done]

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>

