

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: Clean Transportation Market Forecast

Research supports the following policies -

- Greenest City Action Plan/ Climate Emergency Response Plan
Specific goal area/ big move(s): Big Move 3
- Renewable City Action Plan
- Green Operations
- Transportation 2040

Outline scope of project and why it is of value to the City of Vancouver and describe how and when the scholar's work will be actionable

Vancouver and B.C. are transitioning to a fossil fuel free transportation system with the Clean B.C. strategy, Translink's Renewable 2040 strategy, B.C. Transit's electrification plan, Vancouver's Renewable City Strategy, and Big Move 3 of the City of Vancouver's Climate Emergency Response. This shift brings with it a wholesale transformation of the market for vehicle-related products, systems, technologies, skills, and expertise. The suite of policies guiding transportation in our region in many ways defines a path for residential, commercial, and governmental adoption of clean energy vehicles and related technology. This moment in time provides a unique opportunity to quantify and forecast market demand across the region, as well as assess the local supply chain to identify existing capacity, gaps, and near-to-long term potential market growth. At the Vancouver Economic Commission, outcomes for this study will dictate strategies for economic development in transportation sectors that enables local economic prosperity and resilience in a time of rapid change.

The Clean Transportation Market Forecast is modeled on the wildly successful Green Building Market Forecast (GBMF) completed by VEC in 2018-19. Based on the BC Energy Step Code and new construction growth projections for lower mainland municipalities, the first of its kind model developed for the GBMF is now being adapted as an app for use by municipalities, manufacturers, procurement officers, and construction companies working to actively fulfil on the requirements set out by progressive building policies. A similar approach is now being applied to transportation and the large-scale shift to electric and alternative fuels.

The successful scholar will play a critical role by reviewing, collating, and synthesizing relevant transportation plans and policies, defining the stakeholder group for engagement, and identifying relevant data sources for the Clean Transportation Market Forecast.

Objectives of the larger project:

1. Quantify forecasted market demand related to the implementation of Clean B.C. and other clean energy vehicle policies across B.C.
2. Evaluate B.C.'s supply chain to identify strengths and opportunities (what products are produced in the local market, where can we strengthen international trade relationships or bring assembly to B.C. and attract investment)

Objectives of the summer research project:

1. Collect and review all relevant plans governing transportation in Vancouver and BC
2. Synthesize plans to create comprehensive documentation of the future of transportation in the region
3. During plan identification and review, draft stakeholders for engagement in future project phases
4. During plan identification and review, draft list of data sources to be used in future project phases

Deliverables

The Scholar will deliver a final report containing a summary of completed work. The report will be complemented by a final presentation to key stakeholders. The report should include:

- List of all relevant plans governing clean/green/low carbon transportation in Vancouver and BC
- Synthesis of plans that provides parameters to the Clean Transportation Market Forecast
- Draft list of stakeholders (organizations, institutions, businesses, industry associations) to engage in future project phases
- Draft list of data sources that will inform future project phases
- A public facing final report (or executive summary) for the UBC USI website

Time Commitment

- This project will take 250 hours to complete. The number of hours may be increased to 320 pending funding confirmation later in January. Candidates will be informed of the total number of project hours during the interview.
- This project must be completed between May 4 and August 14, 2020
- The scholar is to complete hours between 9:00 am to 5:00 pm, Monday to Friday at approximately 16 hours per week

Skill set/background required/preferred

- Excellent research and writing skills.
- Demonstrated interest in transportation.
- Strong technical writing skills
- Strong analytical skills
- Ability to work independently
- Demonstrated time management skills
- Deadline oriented



- ☒ Project management and organizational skills
- ☒ Strong technical acumen
- ☒ Familiarity with benchmarking methods and tools
- ☒ Familiarity with qualitative research methodologies and implementation
- ☒ Familiarity with quantitative research methodologies and implementation
- ☒ Demonstrated interest in alternative fuels and electrification
- ☒ Entrepreneurial spirit and determination

Additional Project Needs

Scholar must work on their own personal computer for hot desking at the Vancouver Economic Commission

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.

