

## **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:** Economic Impacts of Shared, Automated and Electric Vehicles (SAVEs) in Metro Vancouver

### **Sustainability Goal or Operations Plan objective**

Understand the socio-economic impacts and opportunities associated with SAVEs as part of a greenhouse gas mitigation strategy.

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

TransLink is currently developing the Regional Transportation Strategy, which explores the long-term vision of mobility in the Metro Vancouver region. Concurrently, Metro Vancouver is initiating the development of a Transportation Roadmap for the region's Climate 2050 plan, which will guide the implementation of climate action projects to help achieve regional greenhouse gas reduction goals of 80% by 2050.

Autonomous, electric and shared vehicles, combined and individually, represent technological and business model innovations which are poised to impact mobility and emissions in our region. At scale, the adoption of SAVEs has potential to impact a number of sectors within our local economy. Additionally, there are sectors of our economy which could be poised to grow with these disruptions.

TransLink seeks a UBC Sustainability Scholar to conduct a market review of the sectors that may be impacted by the rise of each of these technologies. This review will consider factors such as GDP and job loss (both numbers and types of jobs) as well as numbers of businesses impacted, and potential for secondary effects. The student will also consider all the needs and requirements of new technologies and the potential growth in numbers of businesses, jobs and value-added.

### **Deliverables**

- A draft report, which shall include the following:
  - Literature scan of prior impact analyses of industries impacted by autonomous, electric, and shares vehicles individually and combined from other jurisdictions;

- Market review of these industries in the Metro Vancouver region, including statistics such as number of jobs and annual production value;
- If time permits, conduct interviews with industry representatives from affected sectors to provide a more fulsome picture, including, for example, understanding industry response;
- If time permits, assessment of secondary economic effects;
- Conclusions and recommendations for mitigating the impacts and capitalizing on opportunities in Metro Vancouver
- A final report for the UBC Sustainability Scholars online project library and presentation.
- Summary report of interviews with stakeholders

### **Staff Mentor and Department**

Mentor: Eve Hou, Project Manager, [Eve.Hou@translink.ca](mailto:Eve.Hou@translink.ca), (778) 375-7494

Alternate: Joshua Power, Policy Analyst, [Joshua.Power@metrovancover.org](mailto:Joshua.Power@metrovancover.org), (604) 216-3262

### **Time Commitment**

- This project will take **250\*** hours to complete.
- This project must be completed between April 29 and August 12, 2019.
- The scholar is to complete approximately 12 hours per week.
- The scholar must be available to meet over the phone or in person on a bi-weekly basis with the project team. Research and report writing can be completed by the scholar at their convenience.

### **Required/preferred Skills and Background**

*This section will be used to match students with your project. Please be as specific as possible in describing the skillsets you require—they will be used to guide the application shortlisting and in developing skills training and professional development workshops. Feel free to add to or delete from the list below as necessary.*

- Excellent research and writing skills
- Familiarity with research methodologies and survey techniques
- Statistical analysis
- Strong analytical skills
- Ability to work independently
- Deadline oriented
- Familiarity with benchmarking methods and tools
- Experience with financial modelling and analysis
- Experience with market data or economic analysis an asset.

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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.