



## Two Ph.D. Student Positions in Transportation Engineering – Fall 2024

**Department:** Civil and Environmental Engineering

**Group:** Transportation Engineering

**Description:** Dr. Stephen Wong is recruiting two students to conduct innovative research related to resilient and sustainable transportation infrastructure at the University of Alberta to start **Fall 2024 (August)**. Full funding will be available through multiple pathways, including opportunities for a research assistantship and/or teaching assistantship. The student will be part of the newly formed Resilient and Sustainable Mobility and Evacuation (RESUME) Group.

### Qualifications

Both Positions

- Completed a Master's of Science degree in Civil and Environmental Engineering or related fields;
- Excellent written and oral communication skills including technical writing experience;
- [Requirements](#) from the Department of Civil and Environmental Engineering.

Position #1

- Background and research experience in LiDAR or photogrammetry data collection and analysis, digital twins, VR/AR environment design, and/or agent-based modeling;

Position #2

- Background and research experience in behavioural analysis, in particular advanced discrete choice analysis, survey design, and survey data analysis.

### Additional Considerations

- Those who are underrepresented in engineering are especially encouraged to apply.
- Those with a strong interest/experience in public policy, urban planning, community engagement, and equity-centered engineering are especially encouraged to apply.

### Application Process

All interested applicants **must** fill out this form (<https://forms.gle/D9pEPCQDMdtExvRG6>) with the following information to be considered for a support letter:

- Current CV
- English test scores (unless [recognized](#) by the University of Alberta)
- A writing sample as a first author (e.g., journal article, report, thesis, etc.)
- Cover letter (1 page)

Top candidates will be interviewed via a video call and be given a writing assignment. Selected candidates will be offered a letter of support to complete their application to the Department of Civil and Environmental Engineering (more info [here](#)). A letter of support does not guarantee acceptance to the program as the University of Alberta makes the final decision about admissions.

**NOTE: Position is open until filled. The form link will become inactive when candidates are chosen. Submissions via email will be disregarded.**

## About

### **Dr. Stephen Wong**

Dr. Stephen Wong is an Assistant Professor in the Department of Civil and Environmental Engineering at the University of Alberta and leads the Resilient and Sustainable Mobility and Evacuation (RESUME) Group. Dr. Wong's research focuses on the intersection of disasters/emergencies, decision-making, and transportation and works to create more resilient, environmentally friendly, and equitable transportation systems. He was a National Science Foundation (NSF) Graduate Research Fellow, a Dwight D. Eisenhower Transportation Research Fellow, and an Eno Transportation Center Fellow. At the Transportation Research Board (TRB), Dr. Wong is a co-chair of the Young Member Council – Sustainability and Resilience, research coordinator and member of the Committee on Disaster Response, Emergency Evacuations, and Business Continuity, and member of the Committee on Strategic Management. He also contributes to the International Association for Fire Safety Science and the Society for Fire Protection Engineers. Dr. Wong received his Ph.D. from the University of California, Berkeley in December 2020.

### **Resilient and Sustainable Mobility and Evacuation (RESUME) Group**

The RESUME Group is a collaborative collection of researchers and students at the University of Alberta working to build more resilient and sustainable transportation systems in Canada and beyond. To tackle both the cause and effect of climate change, the Group employs a mixed-method research approach and brings together diverse fields of engineering, social science, and public policy to guide governments and practitioners in decision-making, planning, and preparedness. The Group is committed to compassionate research, collaboration, and mentorship that promotes diversity and inclusion at our university and in the communities we serve. The RESUME Group has seven current or incoming graduate students and three current undergraduate students. The majority of students are from traditionally underrepresented groups in engineering. <https://www.wong-stephen.com/resumegroup>

### **University of Alberta**

The University of Alberta is one of Canada's top universities and among the world's leading public research-intensive universities, with a reputation for excellence across the humanities, sciences, creative arts, business, engineering, and health sciences. Our students choose from 400 undergraduate, graduate, and professional programs in 18 faculties. With over 100 years of history and 250,000 alumni, the U of A is known globally for equipping graduates with the knowledge and skills to be tomorrow's leaders. Home to nearly 40,000 students, including more than 7,000 international students from over 150 countries, the U of A fosters a supportive and multicultural atmosphere within a vibrant research environment. The U of A is located in Edmonton, Alberta, a dynamic city with one million residents and the major hub for Alberta's thriving energy industry.