1 PhD position in adapting buildings for climate change, as part of
*The Bringing Resilience to the Greater Victoria 2030 District and Beyond Initiative*

Retrofitting existing buildings is critical to achieving resilience to climate change and other acute shocks (e.g.,
eartquakes). The opportunity is immense given that the building renewal rate (2-3%) is comparable to new
construction. There is a plethora of options for owners to consider and a lack of clarity on the optimal path forward
from the perspectives of technical performance, economic effectiveness, occupant well-being, and building durability.

The *Greater Victoria 2030 District* consists of 37 buildings, 3.6 million square feet of space, includes major property
managers in the region and is committed to significant climate change action. The district is seeking a method to
support streamlined assessment and decision making to enhance resilience of buildings in the district with the aim of
also using this work as a springboard for other regions.

The position will be supervised by Dr. David Bristow in the *Cities and Infrastructure Systems Lab* (CISL). The work will
be carried out in the stimulating multi-disciplinary environment of the green *Civil Engineering* department at the
University of Victoria on Vancouver Island in beautiful British Columbia, Canada.

**About the position**

The position requires a Master’s degree in engineering (or comparable). This project will identify and demonstrate
solutions for deep resilience retrofits of commercial buildings. Tasks: Data and literature review; methodology
development for a repeatable localized resilience assessment method; collaboration and communication with
engineering consultants and property owners; development of low carbon resilience retrofit options; solutions
analysis and evaluation and recommendations for province-wide expansion of the methodology.

**Partner:** [Building Owners and Managers Association of British Columbia (BOMA BC)](https://www.surveymonkey.ca/r/KSJYKW3)

**How to apply**

**General requirements**

- Mastering the English language
- Start date of May 2022 is preferred. Positions are funded at a level comparable with NSERC scholarships. Holders
  of these or similar awards are eligible for significant top-up funding.
- CISL encourages applications from persons with disabilities, visible minorities, Aboriginal Peoples, people of all
  sexual orientations and genders, and others who may contribute to the further diversification of the University.
- Experience in property condition assessment, facilities management and/or operations research/decision analysis
  a plus

Submit your application using the form at [https://www.surveymonkey.ca/r/KSJYKW3](https://www.surveymonkey.ca/r/KSJYKW3). Review of applicants will begin
soon, but applications are welcomed until the intended start date.