

Tristan Rouse, M.BSc.
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Employment History

Tristan Rouse is a Building Science Project Manager at Building Enclosure Labs Inc. (BELi) in London Ontario. He has previously worked at Engineering Link (EL) as a Building Envelope Engineer-In-Training managing existing building enclosure retrofit consulting projects. He has also worked for Sustainable.TO as a Junior Building Scientist, collaborating with designers and architects on new and retrofit residential projects.

Notable EL Projects

Building enclosure consultant for Durham District School Board (DDSB) and Toronto District School Board (TDSB) covering masonry assessment and retrofit designs and construction administration.

Tristan has also conducted field investigations of several cladding types including pre-fabricated metal panels, fenestration, masonry and ventilated siding.

Tristan has completed roof retrofit projects for the following entities:

- DDSB
- TDSB
- Toronto Metropolitan University
- Pearson International Airport

BELi Projects

Embodied Carbon Assessment of building enclosure materials and systems for Multiunit Residential Buildings for BC Housing to achieve lower embodied carbon emissions.

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Expansion of a tool that calculates the energy and carbon emissions savings that can be realized through roof retrofits for various types of buildings.

Assisted with the investigation and hygrothermal assessment of a heritage masonry building in downtown Toronto to assess the risk of masonry decay due to the addition of interior-installed insulation. Reviewed design drawings for thermal, moisture and air leakage performance to ensure better design choices are made for the project.

Guest Lecturer at George Brown College to discuss roofing types, roof investigation methods and roof retrofit strategies for non-residential buildings.

Lecturer at George Brown College for a building science course with content including air, water, and vapour barriers; heat transfer; and building envelope material properties.

BELi is currently part of a Commissioning Agent team for the City of Mississauga for the construction of a new Fire Station which is currently targeting Net-Zero energy. As BELi is the Building Enclosure Commissioning Agent, Tristan has completed shop drawing and product submittal reviews, and carries out field reviews of the ongoing construction to ensure conformance is met compared to the design. Subsequent whole-building airtightness testing will be completed by the BELi team.

Presentations and Publications

Canadian Home Builders Association

Presenter on New Exterior Walls at Local Energy Efficiency Partnership (LEEP) event.

Enbridge Training Program

Part-Facilitated the Whole Building Airtightness Testing Program

Toronto Metropolitan University

Major Research Project (MRP) as part of Master of Building Science

Memberships

Certified Passive House Consultant (PHIUS)

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