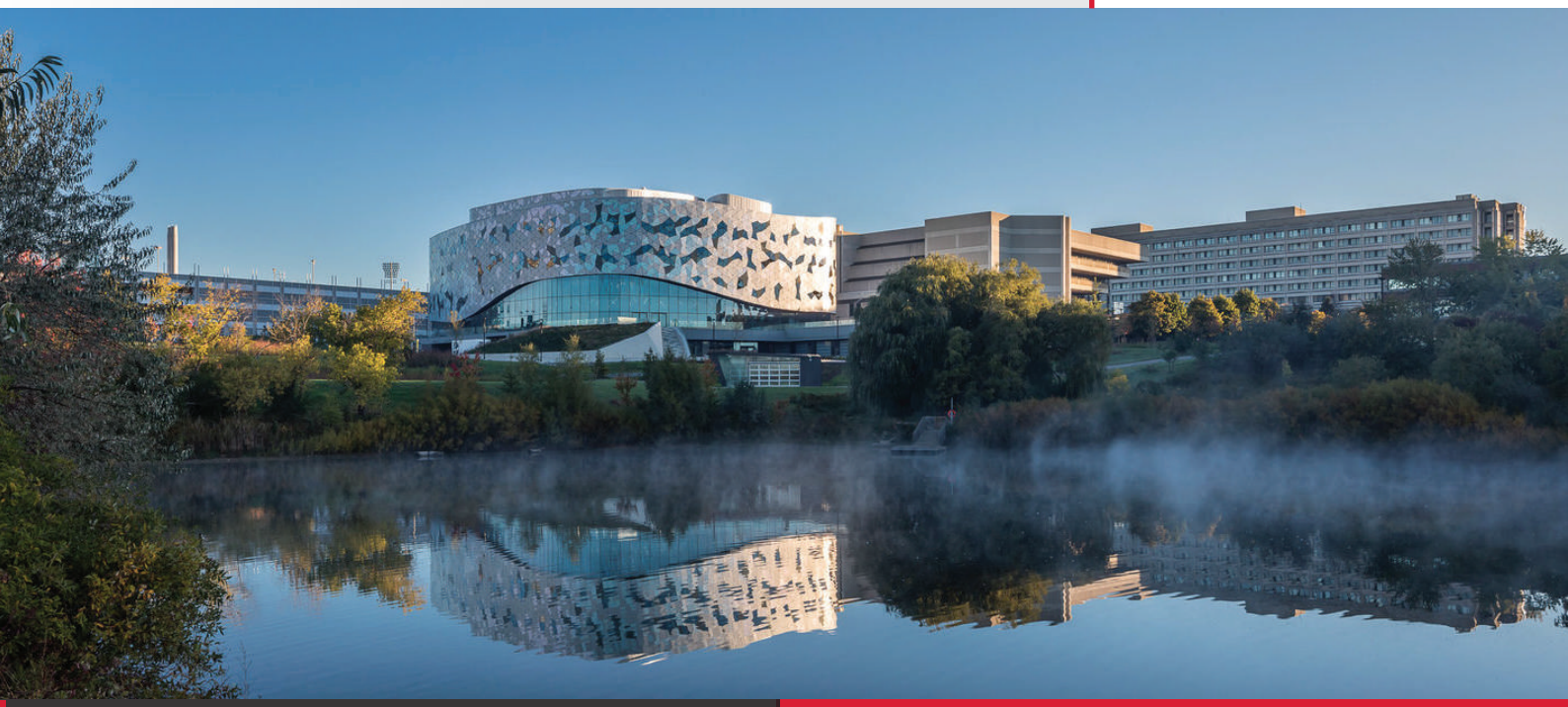
The Bergeron Centre For Engineering Excellence

York University, Vancouver, Canada



Description

The Bergeron Centre for Engineering Excellence officially opened on April 8th, 2016. Designed by ZAS Architects + Interiors and built by construction firm Laing O'Rourke, it is the new home of the Lassonde School of Engineering. The building is designed with a student-centric philosophy in mind that challenges the look of a traditional engineering school. The structure's unique architectural design reflects its main purpose - a hub for entrepreneurship, collaboration and creativity.

Bergeron Centre by the Numbers:

The building's facade features **8,000** triangular metal panels and windows. The triangles are arranged in a mathematically derived Penrose Pattern that never repeats.

Client: Laing O' Rourke
Architect: ZAS Architects
System Partner: Flynn Group of Companies

Design

The Bergeron Centre for Engineering Excellence has a cloud-like triangular glass façade, it's comprised of a series of triangles positioned according to a precise and complex algorithm. Evoking the properties of a cloud, it reflects light and pattern across campus and into the interior.

Project Challenges

As the intricate triangular shaped facades are arranged in a mathematically derived Penrose Pattern that never repeats, every façade was designed specifically for this project.

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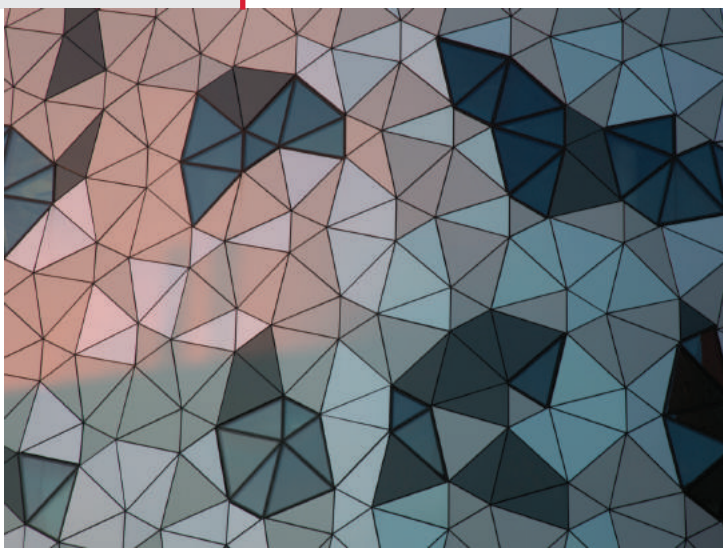

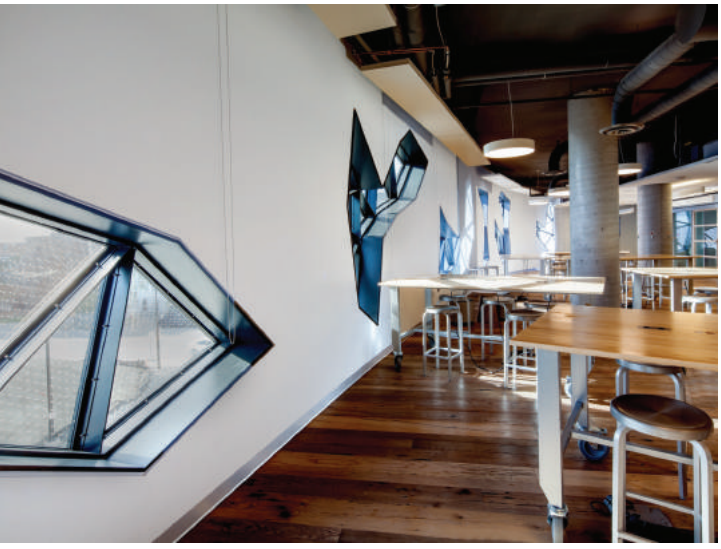

System Used: TB50 SG Facade System

The TB50 SG structurally glazed curtain wall system secures the glass by means of specially designed and tested toggles that are integral to the central seal of the double-glazed units. Silicone sealed, weather resistant joints produce a flush, non-interrupted surface.

A specially designed range of concealed frame awnings are available to fit directly within the framework to provide possible ventilation and flexibility within the internal environment of the structure, whilst not affecting the appearance or geometry of the external façade.

Fully tested to all required AAMA building regulations by a registered ASTM approved facility.