



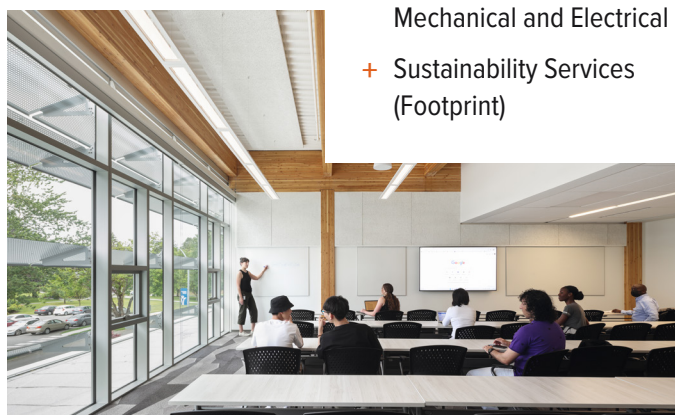
TRINITY WESTERN UNIVERSITY ROBERT G. KUHN CENTRE

LANGLEY, BC



QUICK FACTS

- + Post-Secondary
- + Mass Timber
- + 73,000 square feet
- + \$35-Million Budget
- + Smith + Andersen
Mechanical and Electrical
- + Sustainability Services
(Footprint)





TRINITY WESTERN UNIVERSITY ROBERT G. KUHN CENTRE

ABOUT THIS PROJECT

- + The Robert G. Kuhn building is a four-storey mass timber atrium with spaces for Trinity Western University's School of Business, GLOBAL, and Student Life's Global Engagement Office (GEO), and a multi-functional facility for students and faculty.
- + Mechanical design includes dual-core energy recovery ventilation for increased sensible and latent effectiveness and eliminates the need for frost protection.
- + Heating and cooling is by hybrid heat pumps, which utilize heat rejection from cooling zones to areas of the building requiring heat.
- + Electrical design includes hybrid wired/wireless lighting control system, which aided in meeting the client's budgetary goals.
- + Low flow plumbing features and LED lighting contributed to the project's overall energy efficiency.
- + Mechanical design features evaporative fluid cooler, which efficiently cools based on outdoor temperatures.
- + Exceeds ASHRAE 90.1 with a total energy reduction of 18.3%.
- + Mass timber project required additional coordination of all systems in order to effectively accommodate cross-beams without compromising architectural design.
- + Mechanical team carefully designed a system that prioritizes the distribution of air through the space using elements like the placement of diffusers.

LOCATION

Langley, BC

SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Electrical,
Sustainability (Footprint)

SIZE

73,000 sq. ft. (6800 sq. m.)

BUDGET

\$35 Million

COMPLETION YEAR

2021

HOT BUTTONS

OFFICE SPACES

POST-SECONDARY

MASS TIMBER

MECHANICAL

ELECTRICAL

LIGHTING

ATRIUM

ENERGY MODELLING

