

Designing with Wood











Creative Thinking Practical Results

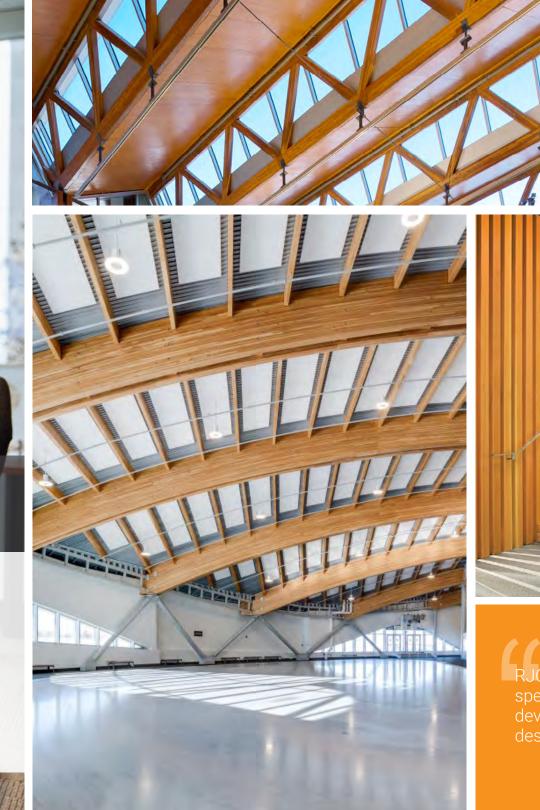




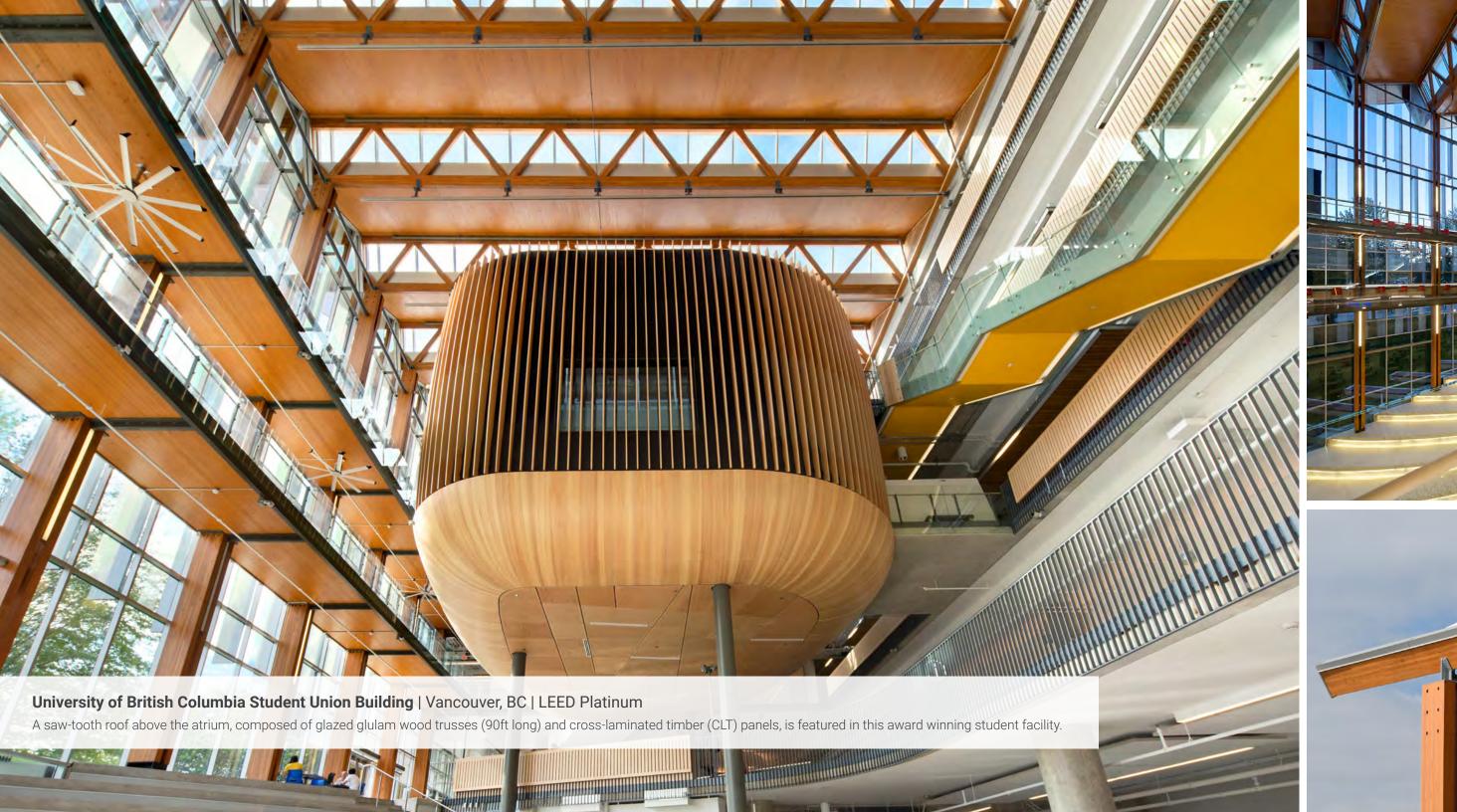
RJC Engineers (RJC) is proud of our long history of pursuing innovative uses of building materials. For over seven decades we have contributed fresh perspectives in design by hiring bright creative people and nurturing them into seasoned specialists. Since our inception, we have continually challenged ourselves to be the best at what we do, and to push the limits of what is possible.

Today, RJC has dedicated wood specialists in offices across Canada. With a national staff of over 560, we have the depth of resources to meet any design challenge. This enables us to provide local expertise backed by industry leaders with specialized knowledge in all aspects of wood design.

We are passionate about bringing our client's vision to reality through creative structural solutions, while treading softly on the environment.





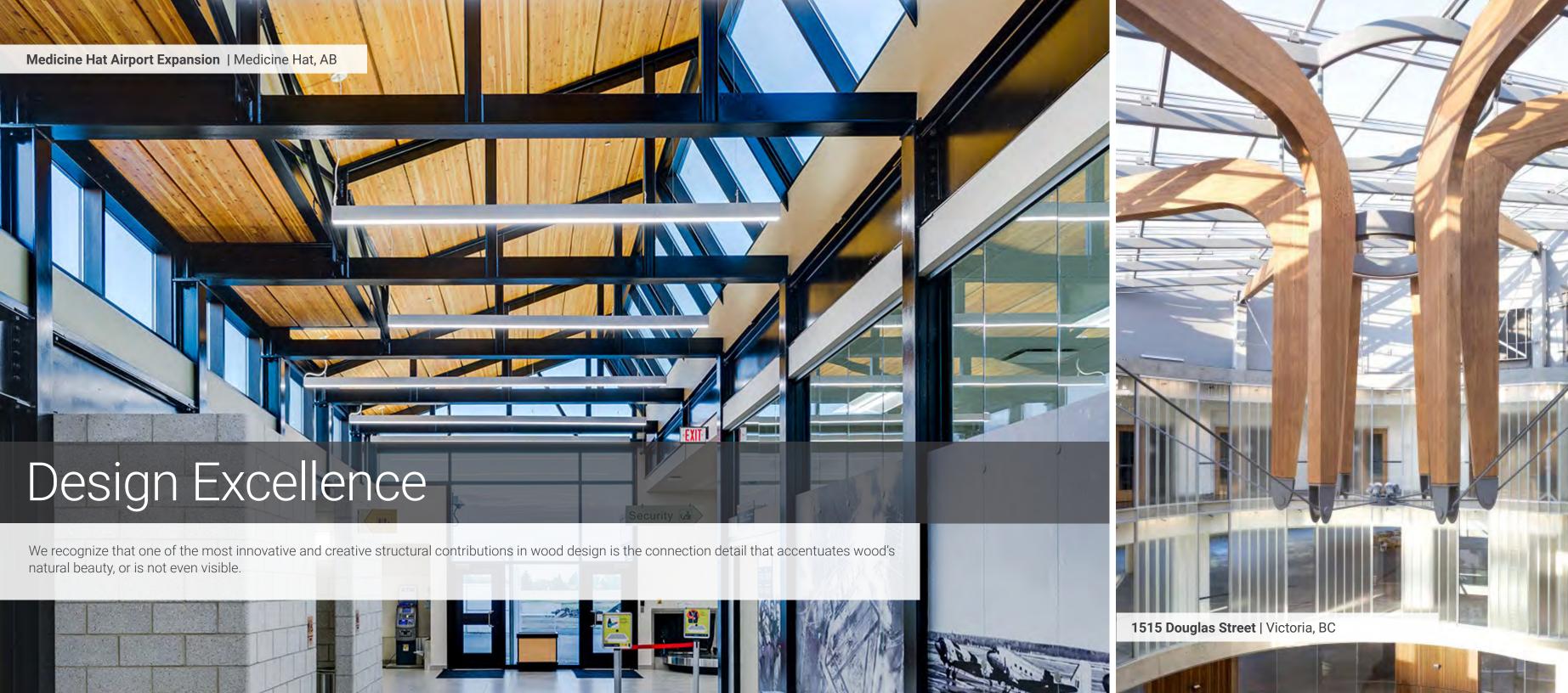












We have the creativity and technical excellence to produce attractive connection designs and achieve challenging architectural visions.

Bruce Johnson, RJC Victoria





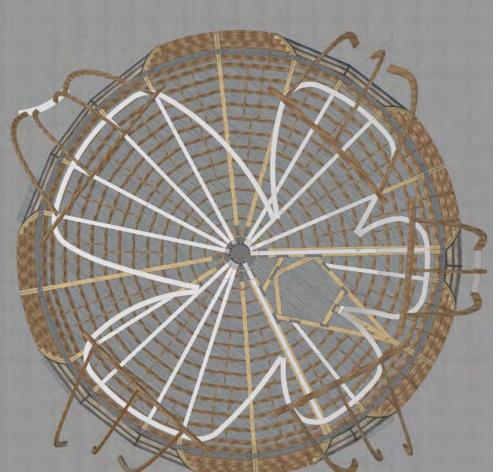


integration through interactive











The structure consists of five curved wood shear walls and seven glazing columns that support a hybrid timber-steel dome, while the five outer petals were fabricated from over 2,500 individual wood pieces that were cut to suit the complex double curvature geometry.



A new residential tower proposed for Coal Harbour in downtown Vancouver which will become the world's tallest hybrid timber structure. The top six floors of the building are to be constructed using a composite timber floor system supported by timber columns.









Detailed glulam beams, some in the form of trusses together with glulam and timber log posts, provide an inviting presence amidst multiple concrete and brick residence buildings.

Mulgrave Senior School Addition | West Vancouver, BC

Exposed timber is a focus throughout this project in order to transform the school to a more productive, collaborative and warmer learning environment.

















St. Patrick Island Redevelopment | Calgary, AB



Leading Edge Expertise

Our expertise in wood has placed us at the forefront in advancing wood design practices and code development across Canada.



Shane Homes YMCA at Rocky Ridge | Calgary, AB

This award winning facility is ranked as the world's largest YMCA and also boasts North America's largest single wood roof. The curving glulam beams span up to 36m and the innovative connections seamlessly integrate the glulam roof onto the supporting steel structure, allowing for repetition in design, fabrication and erection. These elements create the geometry of an irregular and complex form; a form that serves a vital structural function, but also provides an impressive aesthetic interior finish and dramatic exterior expression.





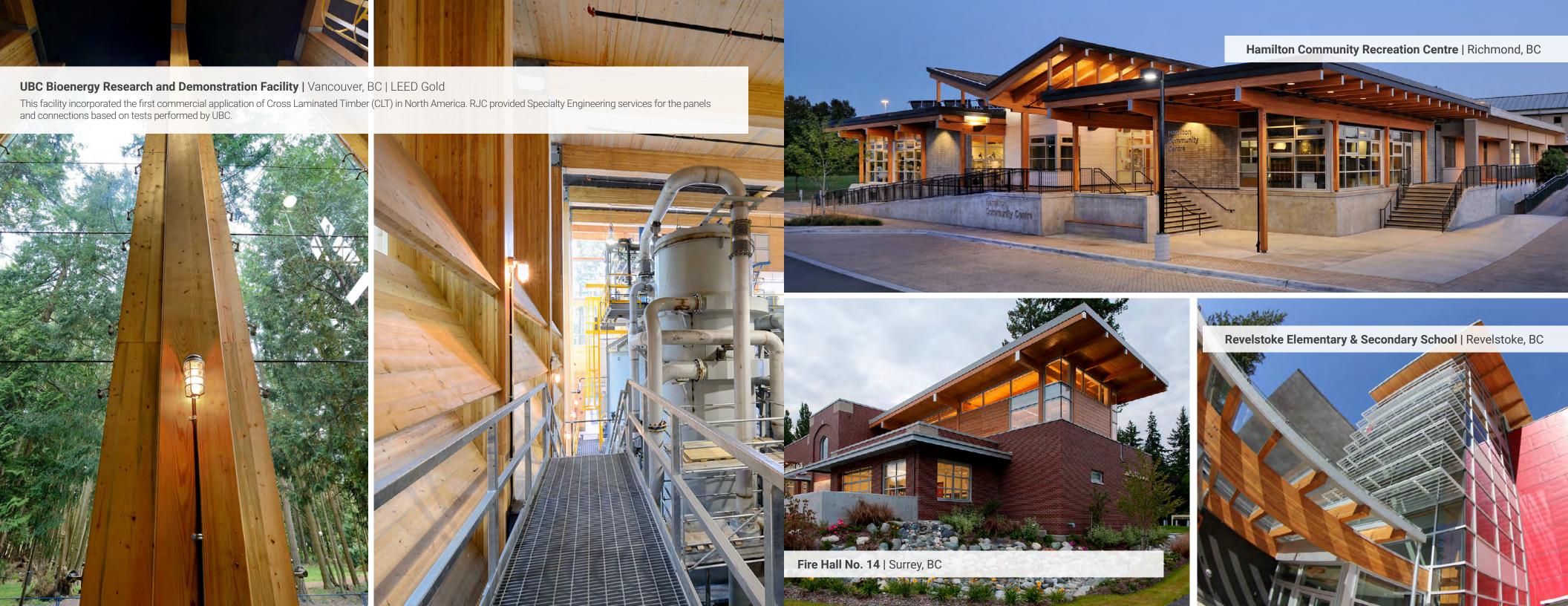


RJC is active with the following organizations shaping the future of wood in Canada.

- Canada's Wood Code
- NEWBuildS
- FPInnovations
- · Canadian Wood Council
- National Building Code of Canada
- BC Advisory Group on Wood-Based Advanced Building Solutions

The innovative design integration and engineering used to create a roof shape that complements the natural elements and rocky mountain vista was very impressive.

Jury for ACEC Awards



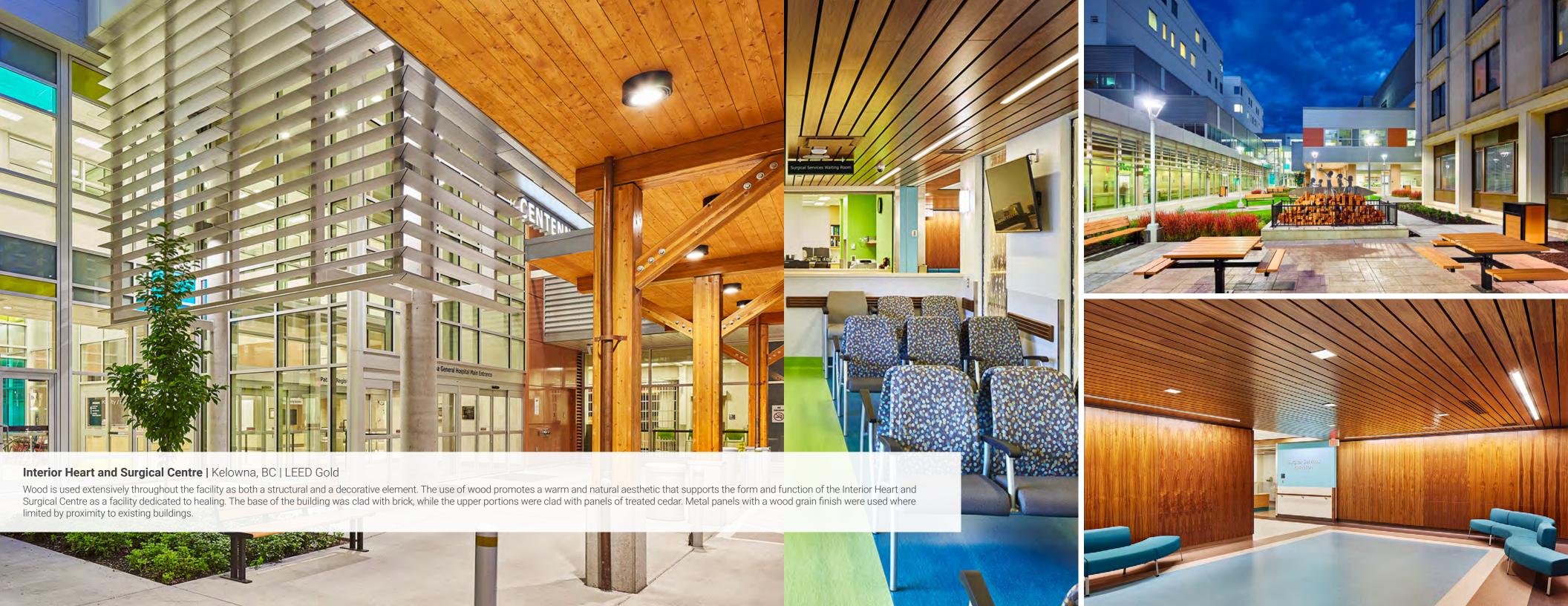


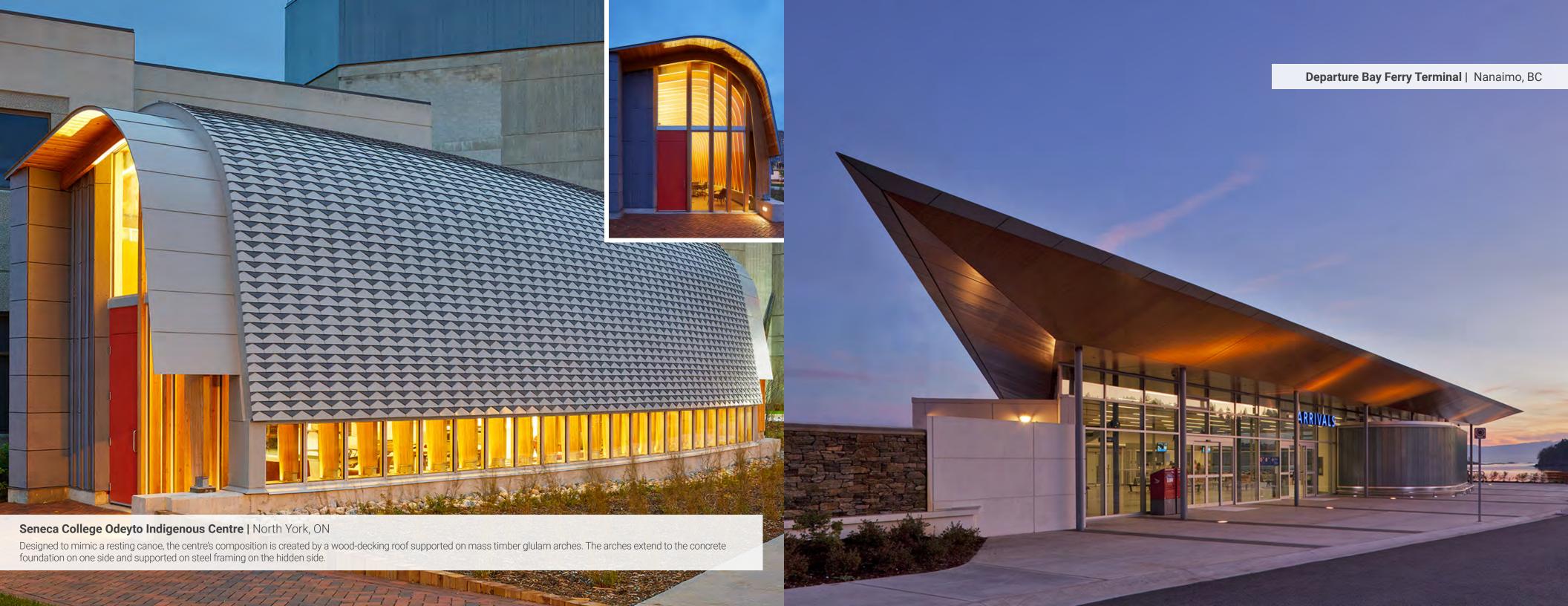




The architects' vision inspired us and through it we pushed wood construction technology to a new level.

CC Yao. RJC Vancouve





Columbia Valley Centre | Invermere, BC

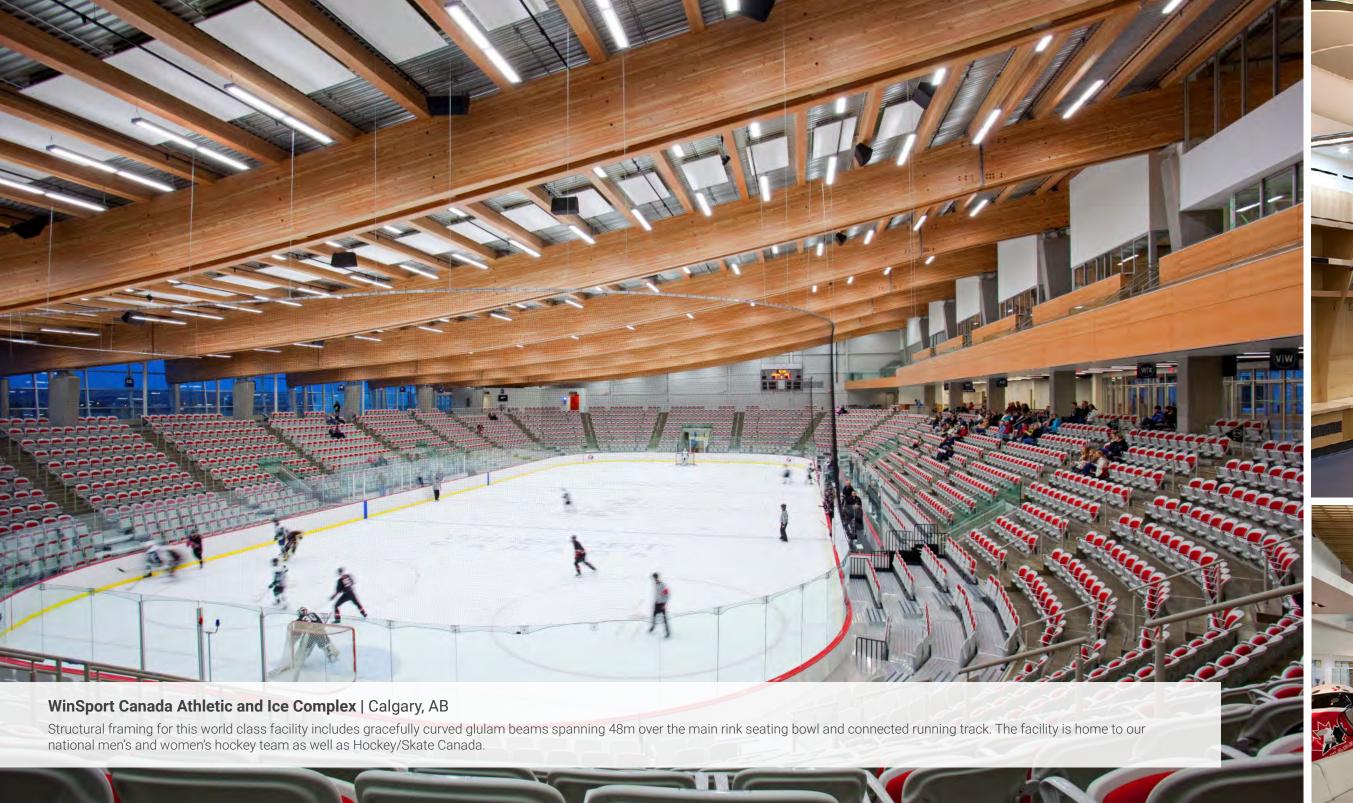
The new 19,000 sq. ft. building hosts a public library, a large main hall, multi-purpose and supportive space and a large roof top terrace which features panoramic views of the surrounding Columbia Valley. Designed to emulate a nearby rusty-steel rail bridge, the community centre was designed with a modern look that compliments the surrounding Rocky and Purcell Mountains.















RJC provided a team with extensive glulam experience for this fast-tracked project. We succeeded in achieving a world-class facility that inspires our national athletes.

viark Ritchie, RJC Caigary



















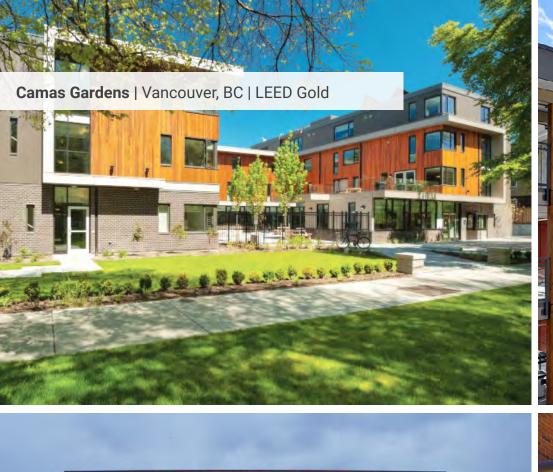
















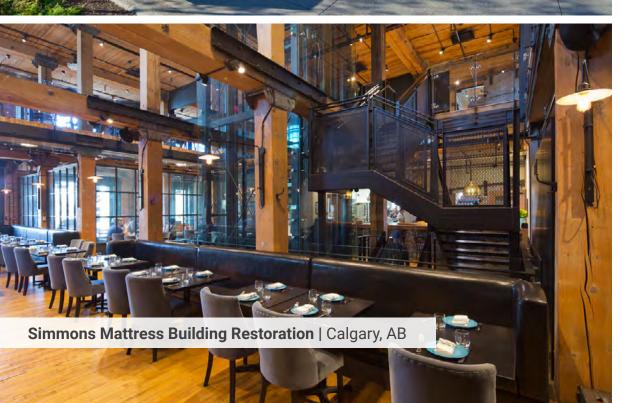
Sea to Sky Gondola | Squamish, BC

This \$22M facility provides outdoor enthusiasts access to extraordinary vistas and back-country wilderness. Glulam and heavy timber is effectively utilized throughout the structures to support the very heavy snow loads.



















Ralph Klein Park Environmental Education Centre | Calgary, AB | LEED Platinum

Most of the structure consists of exposed concrete, glulam beams and joists, integrating structure with architecture. Long span glulam beams support heavy patio and green roof loads.

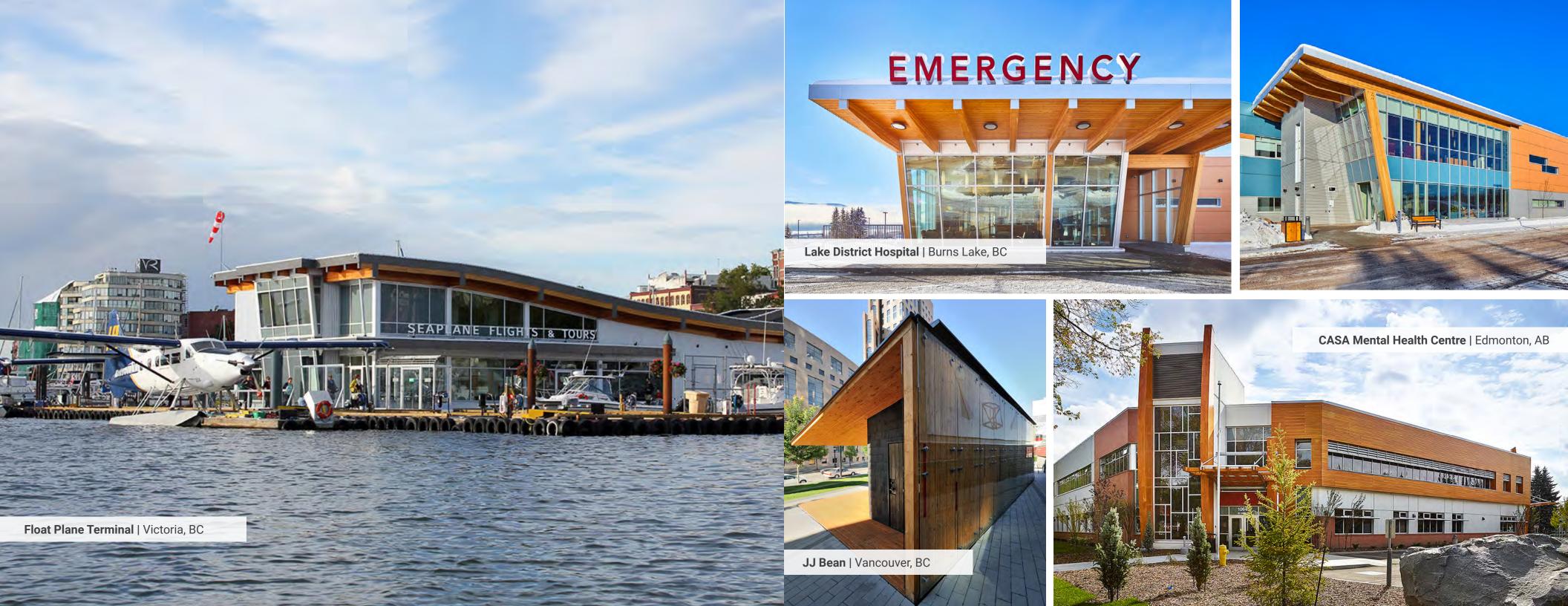


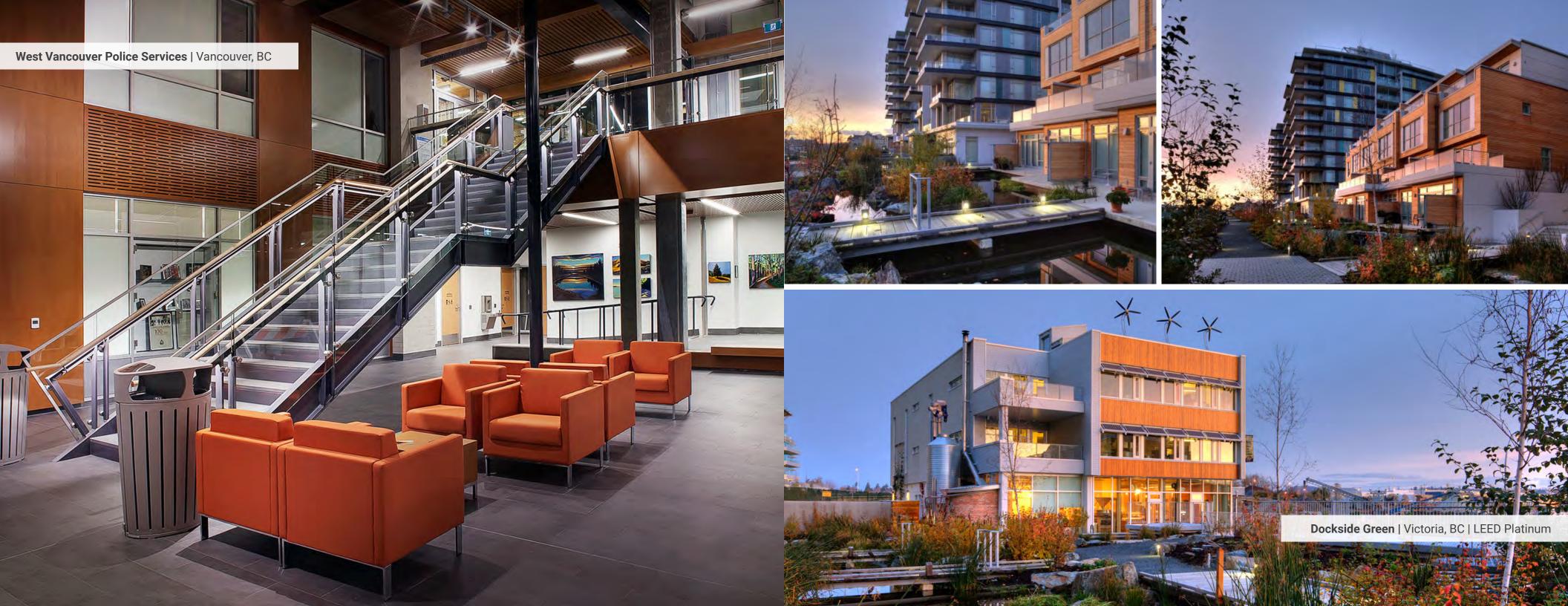






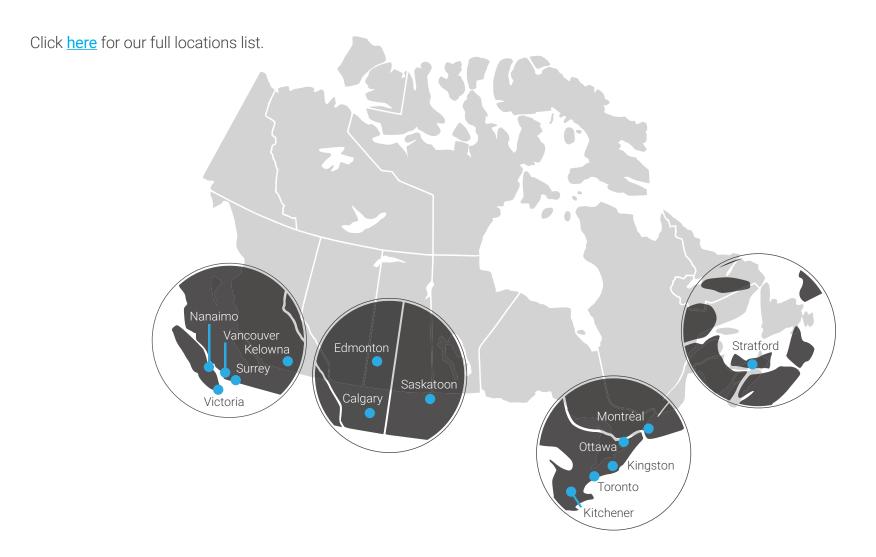






Translink Evergreen Line - Lincoln Station | Vancouver, BC

Contact **Us**



RJC Engineers info@rjc.ca

Creative Thinking **Practical Results**









