## **George Brown College, The Arbour**

Toronto, ON, Canada



The Arbour, anticipated to become Toronto's first tall wood, low carbon institutional building, will bring a unique deep green element to the George Brown College waterfront campus. The 10-storey state-of-the-art structure will revolutionize Toronto's building landscape and advance Canada's sustainability agenda by becoming the first Tall Wood Research Institute in the country. A net zero carbon target has been set by George Brown College in their commitment to sustainability as well as LEED Gold (minimum) and Toronto Green Standard (TGS) V3 Tier 4.

The building will serve as an educational hub—housing research, teaching and learning—as well as a child care facility to accommodate the rapidly growing local community. The proposed design pays homage to Canada's signature wood-framed single-family housing, with mass wood and pitched roof components. Occupant wellness and comfort was a priority in design, as the facility features radiant ceilings, under floor air delivery and breathing rooms with solar chimney systems for sustainable, natural light and ventilation. Expandable and contractible walls will allow for flexibility of learning spaces when required. In addition, a smart building system will equip the building with integrated, intelligent and adaptable technology throughout.



Our goal was to inspire our industry to think that low-carbon and highsustainability targets were not only for the bespoke icons, but for every building, and in so doing propel the green building and the nascent mass timber industry forward.

Carol Phillips, Moriyama & Teshima Architects

Climate Zone: Koppen DFB, ASHRAE 6A Client: George Brown College Architect: Moriyama & Teshima / Acton Ostry Architects

Project Size: 174,913 ft<sup>2</sup>

Construction Value: \$130 M Completion: 2024

Sustainability:

Targeting LEED Platinum Net Zero Carbon Targeting TGS V3 Tier 4 Design

Awards:

2019 WAN Award - Gold in 'Future Projects -Education' 2019 Azure Magazine AZ Award winner and People's Choice – Unbuilt Buildings 2019 MIPIM/Architectural Review Future Project Award — Sustainability Prize 2018 Rethinking the Future Architecture, Construction and Design Award — Institutional Concept 2018 Canadian Architect Award of Excellence Services Provided: Mechanical Engineering

Mechanical Engineerin Electrical Engineering LEED/TGS

