



SENECA COLLEGE CENTRE FOR INNOVATION, TECHNOLOGY, & ENTREPRENEURSHIP (CITE)

TORONTO, ON

QUICK FACTS

- + Construction Management
- + LEED® Gold
- + 494,000 square feet
- + \$85-million Budget
- + Toronto Urban Design Awards, *Award of Excellence, Public Buildings in Context* (2021)
- + Smith + Andersen Mechanical, Electrical, Lighting, Communications, Security, and Audio-Visual
- + Sustainability Services (Footprint)

Seneca



SENECA COLLEGE CENTRE FOR INNOVATION, TECHNOLOGY, & ENTREPRENEURSHIP (CITE)

ABOUT THIS PROJECT

- + Centre includes classrooms, offices, machine shops, dry labs, and a robotics lab.
- + Designed to complement the architectural focus on indigenous design features.
- + Coordinated with design and construction team members in order to keep the project on track to open in time for the academic year.
- + Designed to accommodate industry-first transparent photovoltaic glass solar window.
- + Sustainability and energy efficiency prioritized across all aspects of the project, with energy modelling carried out at each phase.
- + Design reduces utility costs by 35% and greenhouse gas emissions by 40%.
- + Mechanical design achieved stipulated energy parameters through a dedicated outdoor air system (DOAS), enthalpy recovery wheels, magnetic bearing chillers, condensing boilers, a reclaimed rainwater system, and a demand control ventilation system.
- + Design requirements varied for each section of the building.
- + Designed lighting to complement the architectural five-storey atrium space with integral shading features at the exterior of the building.
- + Accommodated custom, colour-changing LED art-piece in the atrium to mimic the northern lights and cast waves of light across the space as per the architects design.
- + Sustainable features of design include LED lighting, daylight harvesting, and PV glass to help meet energy targets.
- + Catered audio-visual and lighting control designs to unique education, research, and presentation requirements of each individual space.

LOCATION
Toronto, ON

SMITH + ANDERSEN
SERVICES PROVIDED
Mechanical, Electrical, Lighting, Communications, Security, Audio-Visual, Sustainability (Footprint)

KEY TEAM MEMBERS
Perkins & Will
RJC Engineers
EllisDon

SIZE
494,000 sq. ft. (45,000 sq. m.)

BUDGET
\$85 Million

COMPLETION YEAR
2019

SUSTAINABILITY
LEED® Gold

AWARDS
Toronto Urban Design Awards,
Award of Excellence,
Public Buildings in Context (2021)

HOT BUTTONS

EDUCATION

ENERGY MODELLING

PHASED PROJECT

SUSTAINABLE

LOW UTILITY COSTS

UNIVERSITY

ROBOTICS LAB

LEED