



MARS DISCOVERY DISTRICT RYERSON UNIVERSITY WET LABORATORIES

TORONTO, ON

QUICK FACTS

- + Laboratory
- + Post-Secondary
- + 18,000 square feet
- + \$8.4-million Budget
- + Smith + Andersen
Mechanical, Electrical,
and Sustainability
(Footprint)



PHOTO CREDIT: Alina Cornea Architectural Photography



MARS DISCOVERY DISTRICT RYERSON UNIVERSITY WET LABORATORIES

ABOUT THIS PROJECT

- + Located across the street from the University of Toronto St. George campus.
- + Involved in the MaRS Discovery District since the early 2000s doing laboratory tenant fit-up projects.
- + Designed primarily as “shell” laboratory space.
- + Most recent project was a floor in the phase 2 tower for the web laboratories.
- + Laboratories were provided with a hybrid HVAC system, including chilled beams in concert with a variable air volume laboratory ventilation system.
- + An air sampling and testing system was installed and linked with the building automation system (BAS) to allow the air handling system to ramp down to a minimum supply and exhaust air volume when contaminants are absent from the air stream.
- + Integrated with lab air valves, this allows for the minimum required outdoor air to be supplied at all times.
- + Other systems included: variable volume fume hoods, central compressed air and vacuum systems, reverse osmosis water generation, chemical resistant drainage, radioisotope resistant drainage and exhaust, a walk-in freezer, and a pre-action sprinkler for data rooms.

LOCATION

Toronto, ON

SERVICES PROVIDED

Mechanical, Electrical,
Sustainability (Footprint)

KEY TEAM MEMBERS

NXL Architects

SIZE

18,000 sq. ft (1,672 sq. m)

BUDGET

\$8.4 Million

COMPLETION YEAR

2016

HOT BUTTONS

POST-SECONDARY

LABORATORY

ASSESSMENT

SUSTAINABLE DESIGN

MECHANICAL DESIGN

ELECTRICAL DESIGN



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