



**MODERN
NIAGARA**

Design. Build. Service.

Quantum Nano



PROJECT DETAILS

LOCATION:
ONTARIO – GREATER
TORONTO

MARKET SECTOR:
EDUCATION

DELIVERY METHOD:
BID AND SPEC

This facility will be home to the Institute for Quantum Computing, the Waterloo Institute for Nanotechnology, and the University of Waterloo's undergraduate program in nanotechnology engineering. The first research facility of its kind in the world, it will accommodate the needs of up to 400 academics from the faculties of Engineering, Mathematics, and Science. The five-storey building will be the most complex scientific building on the campus. Significant features include a 10,000 sq.ft. Class 100 and 1000 clean room with state-of-the-art fabrication facilities for quantum and nano devices; an advanced meteorology suite; extensive teaching and research laboratories; and seminar rooms.

The nature of the experiments that will be conducted at the facility requires more stringent vibration isolation specifications than what a typical hospital or acoustical performance space requires.

The congested location of the site as well as the complexity of the building and systems makes planning, material handling, and prefabrication strategies are keys to success.