



# UNIVERSITY OF WATERLOO

## ENGINEERING 7 BUILDING

### ABOUT THIS PROJECT

- + Engineering 7 building connects to the Engineering 5 (E5) building through a seven-storey atrium with a series of bridges at each level.
- + Home to the electrical and computer, mechatronics, and mechanical engineering faculties.
- + Features collaborative design areas and practical “ideas clinic” lab spaces for students to develop their ideas through simulations.
- + Adjacent to the atrium, a two-storey robot lab enclosed in structural glazing allows for the demonstration of drones and climbing robots.
- + Building revolutionizes how engineers are educated and intends to transform education and research in Canada and around the world.
- + Features a “robo-hub” for testing autonomous and robotic vehicles; an experiential learning Engineering Ideas Clinic™; a 3-D printing laboratory, lecture halls, and an engineering outreach space for youth.
- + Mechanical systems extend from E5’s chilled water plant and the campus central steam plant.
- + Mechanical design features several sustainable components, including heat recovery on exhaust air, a solar wall for outside air pre-heating, and high-efficiency variable speed drive chillers.

#### LOCATION

Waterloo, ON

#### SERVICES PROVIDED

Mechanical,  
Sustainability (Footprint)

#### KEY TEAM MEMBERS

Perkins & Will

#### SIZE

240,000 sq. ft. (22,297 sq. m.)

#### BUDGET

\$70 Million

#### COMPLETION YEAR

2018

### HOT BUTTONS

POST-SECONDARY

ENERGY MODELLING

