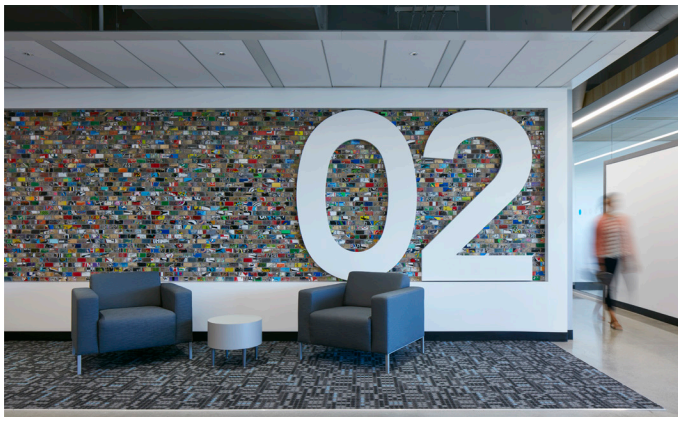
MOUNT ROYAL UNIVERSITY
RIDDELL LIBRARY AND LEARNING CENTRE

CALGARY, AB

QUICK FACTS

+ LEED® Gold
+ On time / on budget
+ Teaching Spaces
+ Modern Library Spaces
+ Adaptive control strategies
+ Technology-driven suites
+ 172,000 square feet (approx.)
+ $85-million Budget
+ Smith + Andersen Mechanical Design



MOUNT ROYAL UNIVERSITY
RIDDELL LIBRARY AND LEARNING CENTRE

ABOUT THIS PROJECT

- The “intellectual heart” of the Lincoln Park campus.
- Features 1,500 seats, 34 group-use rooms, visualization labs, archive storage/ processing space, and media creation suites.
- Technology-driven suites include 3D printers, AV rooms, media editing suites, touch screens, immersion studios and virtual reality technology.
- Incorporates a highly-flexible, low energy mechanical system that allows the University to adapt to the rapidly-changing digital environment.
- Mechanical design incorporates energy efficient features such as variable speed pumps, variable volume fan array air delivery, centralized heat recovery, magnetic bearing chillers, and CO2 monitoring/control to ensure a dynamic and energy efficient mechanical system.
- Houses a large data centre, served by a dedicated HVAC and fire protection system.
- An annual reduction in potable water consumption of 36.8 per cent less than an institutional building of similar occupancy.
- Incorporates adaptive control strategies with intelligent building systems to continuously monitor and control building system operation.
- Final energy consumption was modelled to be 55% lower than the ASHRAE 90.1-2007 baseline model and reported an energy use intensity of 83.7 kBTU/ft².

LOCATION
Calgary, AB

SMITH + ANDERSEN SERVICES PROVIDED
Mechanical

KEY TEAM MEMBERS
Mount Royal University
DIALOG
RJC Engineers
Stuart Olson Construction

SIZE
172,223 sq. ft. (16,000 sq. m.)

BUDGET
$85 Million

COMPLETION YEAR
2016

SUSTAINABILITY
LEED Gold

HOT BUTTONS

MECHANICAL DESIGN | LEED GOLD | POST-SECONDARY | LIBRARY | DATA CENTRE | ULTRA-LOW ENERGY