



Applied Research

Making an impact

1st

in Canada for Large College Research Income in 2025 from Research Infosource.

2nd

in Canada as an applied research college in 2025 from Research Infosource.

1st

in Ontario as an applied research college in 2025 from Research Infosource.

1,292

partner organizations.

541

applied research projects completed.

\$59

million invested in innovation.

Colleges play an increasingly important role in driving innovation

Colleges play an increasingly important role in driving innovation by equipping partners with expertise, resources and infrastructure; providing students with experiential learning opportunities; and fostering collaboration that drives sustainable societal and economic prosperity.

IDEAWORKS

As the college's applied research arm, IDEAWORKS delivers customized support to organizations it works with through seven research centres that focus on areas such as additive manufacturing, energy and power innovation, and the Internet of Things.

Applied Research Projects: Drone-Based Surveying for Stormwater Management

Led by Mohawk College's Unmanned and Remote Sensing Innovation Centre (URSIC) in partnership with the City of Hamilton, the project deployed drone-mounted echo sounders to survey 137 stormwater ponds.

Impact: Replacing manual processes, the drone-based surveying enabled safer, faster and more accurate data collection, improving infrastructure management and earning national recognition from Water Canada.

Better Homes Hamilton – Home Retrofit Program

Mohawk College's Centre for Climate Change Management (CCCM) co-designed a residential energy retrofit program with the City of Hamilton to cut greenhouse gas emissions.

Impact: The pilot project engaged over 60 stakeholders and 300 residents and secured City Council support to pilot retrofits in 50 homes with each property able to receive up to \$20,000 in zero-interest loans.

Healthcare Innovation through Additive Manufacturing

Mohawk College's Additive Manufacturing Innovation Centre (AMIC) collaborated with DAZL Innovations to optimize The Lifty, a medical device that reduces the force needed for vial cap removal.

Impact: AMIC improved design for manufacturability and durability, producing approximately 40 prototypes, and conducted end-user testing at St. Joseph's Hospital. The device, now available for purchase, reduces repetitive wrist strain—the second most common injury among healthcare workers.

Mohawk College's Applied Research areas of focus:

- Advanced manufacturing
- Healthcare and life sciences
- Information and communication technologies
- Transportation and mobility
- Clean tech
- Construction and building technologies
- Energy and power
- Climate action and sustainability
- Social innovation

