

PARTNER PERSPECTIVE

York U Research Accelerates Scientific and Societal Solutions



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York's researchers and trainees are actively changing the way we think about the world. York's faculty are a cohort of world-class leaders who work to advance research and innovation across a breadth of disciplines from the social sciences, to business, law, health, science and engineering in

areas that range from biological and computational vision, to rehabilitation, big data, digital media, environmental sciences and transportation.

As one of Canada's leading universities, with 24 active research centres and institutes, and a wide-ranging complement of Research Chairs, York's researchers are working together with industry, government, community groups, not-for-profits and international academic partners to create new knowledge and discoveries that accelerate the development of cutting-edge solutions to today's most pressing scientific questions and societal challenges.

York's researchers have played key roles in some of the most important research discoveries in the past half-century, including:

- ✓ Discovering a brainstem center that controls both 3D eye orientation and 3D head orientation, leading to the creation of models that have been used to guide neurosurgical

procedures and promise new treatments for movement disorders

- ✓ Actively contributing to an international team of researchers that discovered the Higgs Boson particle, which is the foundation upon which our current understanding of the material universe is built

- ✓ Detecting water on Mars, made possible by an instrument on the NASA Mars Phoenix Lander that was developed at York

- ✓ Leading research studies demonstrating that the lifelong use of two or more languages helps to prevent the onset of Alzheimer's and other forms of dementia

York University's commitment to excellence in research and scholarship reflects a world-class research university. Our vibrant community of researchers is central to driving discoveries, entrepreneurship and critical thinking required to make a difference in the world. This is innovation.