

Innovation Fund / Fonds d'innovation

Backgrounder / Fiche d'information

Ontario

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$154,053,655 to support 85 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 154 053 655 \$ en vue d'appuyer 85 projets d'infrastructure dans la province.

Project Title / Titre du projet	Maximum CFI Contribution / Contribution maximale de la FCI
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Baycrest Centre for Geriatric Care

Memory as a Dynamic System (DyMnemo): Implications for Aging, Clinical Interventions, and Technological Innovations	\$1,861,828
1 project / projet	\$1,861,828

Brock University

CCOVI's Expanded Fermentation, Wine Flavour and Consumer Behaviour Facilities	\$960,099
1 project / projet	\$960,099

Carleton University

Facility for Development of Noble Liquid Detectors and Optical Readout for Subatomic Physics and Particle Astrophysics	\$2,700,000
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$125,000
* Upgrades to the ATLAS Detector at the Large Hadron Collider (University of Toronto)	\$800,000
* Real-time Aquatic Ecosystem Observation Network (RAEON) (University of Windsor)	\$1,121,499
4 projects / projets	\$4,746,499

George Brown College

* Centre for Food Innovation and Nutrition Discovery (Ryerson University)	\$35,754
1 project / projet	\$35,754

* These funds are the share of multi-institutional projects for which the administrative institution is identified in parenthesis. The share of a CFI award refers to the CFI contribution for infrastructure to be sited at a collaborating institution and/or the collaborator's institutional envelope contribution to the project.

* Ces sommes représentent la portion des projets multiétablissements pour lesquels l'établissement administrateur a été identifié entre parenthèses. La contribution de la FCI est la portion servant à l'infrastructure devant être hébergée à l'établissement partenaire ou la portion de l'enveloppe de l'établissement partenaire consacrée au projet.

Lakehead University

* SmartForests Canada: A Network of Monitoring Plots and Plantations for Modeling and Adapting Forests to Climate Change (Université du Québec à Montréal)	\$146,816
1 project / projet	\$146,816

McMaster University

The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy	\$147,129
The Good Bugs, Bad Bugs Program	\$5,975,793
* High-Momentum and High-Luminosity Muon Beamlines for Molecular and Materials Science and Fundamental Muon Physics (Simon Fraser University)	\$790,944
* Ontario-Quebec Center for Organ-on-a-Chip Engineering (University of Toronto)	\$495,474
4 projects / projets	\$7,409,340

Nipissing University

* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$30,000
1 project / projet	\$30,000

Queen's University

PICO-500 A New Ultra-Sensitive Dark Matter Detector for SNOLAB	\$1,247,497
Nanophotonics Research Centre	\$2,889,550
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$95,529
* Unlocking the Radio Sky with Next-Generation Survey Astronomy (University of Toronto)	\$240,629
* The Canadian Peoples 1861-1921 (University of Guelph)	\$164,473
5 projects / projets	\$4,637,678

Ryerson University

Centre for Food Innovation and Nutrition Discovery	\$1,862,446
* Ontario-Quebec Center for Organ-on-a-Chip Engineering (University of Toronto)	\$449,509
2 projects / projets	\$2,311,955

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Sinai Health System

From Cells to Tissues: Spatiotemporal Modeling of Organogenesis in Health and Disease	\$3,680,765
Toronto Perinatal Brain Protection Research Collaboration	\$751,643
* Translating Synaptic Plasticity Using Advanced Optophysiology (University of Toronto)	\$463,825
3 projects / projets	\$4,896,233

Sunnybrook Health Sciences Centre

Advanced Neurotherapeutics involving MRI Guidance of Transcranial Focused Ultrasound	\$2,510,000
Preclinical Platform Expansion for Cardiovascular Interventions: Electrophysiology and Regenerative Medicine	\$869,131
Combined MRI-Linac Ultrasound Therapy Instrumentation	\$3,231,400
3 projects / projets	\$6,610,531

The Hospital for Sick Children

Resource for High-resolution High-throughput Biomolecular Cryo-EM	\$4,928,904
Electron Microscopy to Advance 3-dimensional Study of Cells in Health and Disease	\$2,577,371
MRI of the Mouse: Linking Structure, Function, and Disease	\$4,135,120
Centre for Advanced Pediatric Imaging and Therapy for Obesity and Lung (CAPITOL)	\$3,271,405
3D-ORG: 3D screening infrastructure for tissue Organoids and model Organisms	\$1,409,429
Infrastructure for the Analysis of Disease Proteins	\$3,450,693
* Translating Synaptic Plasticity Using Advanced Optophysiology (University of Toronto)	\$463,824
* Toronto Perinatal Brain Protection Research Collaboration (Sinai Health System)	\$185,662
8 projects / projets	\$20,422,408

The University of Western Ontario

The Physical and Chemical Degradation of Materials	\$4,471,622
New Horizons in Human Cognitive Neuroscience Research at the Brain and Mind Institute	\$1,476,122
Facility for Microcirculatory Imaging and Tissue Analytics	\$1,969,251
Minimally-invasive Surgery and Therapy	\$2,712,913

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... / The University of Western Ontario

Infectious Disease Pathogenesis Facility for the Study of Emerging and Re-emerging Infectious Diseases	\$3,196,098
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$103,490
* Real-time Aquatic Ecosystem Observation Network (RAEON) (University of Windsor)	\$493,074
7 projects / projets	\$14,422,570

Trent University

* Real-time Aquatic Ecosystem Observation Network (RAEON) (University of Windsor)	\$380,643
1 project / projet	\$380,643

University Health Network

The Center for Advancing Neurotechnological Innovation to Application (CRANIA)	\$6,540,000
Princess Margaret Cancer Centre Precision Medicine Program	\$11,807,165
* Ontario-Quebec Center for Organ-on-a-Chip Engineering (University of Toronto)	\$938,823
3 projects / projets	\$19,285,988

University of Guelph

The Canadian Peoples 1861-1921	\$164,473
ImprovLab	\$2,030,277
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$44,000
3 projects / projets	\$2,238,750

University of Ottawa / Université d'Ottawa

microSTARR - Ultra Sensitive Tracer Analysis for Radioisotope Research	\$3,728,375
Infrastructure to Support the Discovery and Development of Innovative Viroceuticals	\$1,900,814
Light-Matter Interaction: The Interface for Technology of the Future	\$4,882,041
Ottawa Muscle & Nerve Initiative (OMNI)	\$4,000,000
* National Facility for Seismic Imaging (Dalhousie University)	\$350,000
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$119,412
* The Canadian Peoples 1861-1921 (University of Guelph)	\$164,473
7 projects / projets	\$15,145,115

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University of Toronto

Unlocking the Radio Sky with Next-Generation Survey Astronomy	\$1,071,935
Upgrades to the ATLAS Detector at the Large Hadron Collider	\$9,200,000
Translating Synaptic Plasticity using Advanced Optophysiology	\$2,242,771
Fibrosis Network	\$2,550,039
Gemini IRMOS: The Pathfinder for the Thirty Meter Telescope's Infrared Multi-Object Integral-Field Spectrograph	\$2,384,943
Thermoelectric Materials Research Consortium	\$703,500
Q-Cell: Quantitative Single Cell and Cell Population Analysis to Link Genotype to Phenotype	\$2,760,000
Ontario-Quebec Center for Organ-on-a-Chip Engineering	\$1,807,977
Smart City IoT Testbed	\$450,000
Lab-in-Fibre: Smart Glass Probing and Distributed Sensing Microsystems	\$1,950,000
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$265,359
* The Canadian Peoples 1861-1921 (University of Guelph)	\$164,473
* From Cells to Tissues: Spatiotemporal Modeling of Organogenesis in Health and Disease (Sinai Health System)	\$1,200,000
* National Facility for Seismic Imaging (Dalhousie University)	\$350,000
14 projects / projets	\$27,100,997

University of Waterloo

Next Generation Joining Technologies	\$1,925,191
Canadian Additive Manufacturing Network (Can-AMN): A Network for Holistic Innovation in Additive Manufacturing	\$2,371,958
Photonic Quantum Circuits - The Integration of Atomic and Solid-State Quantum Systems	\$960,000
Airborne Cryospheric SAR (CryoSAR) System	\$493,158
Quantum Communications Payload Operations Centre	\$338,601
RoboDrive: Waterloo Autonomous Driving and Driver Assistance Research Facility	\$1,934,865
Wetland Ecosystem Terrain Systems Simulator (WETSyS)	\$1,083,524
Facility for Functionally Advanced Sensor Technology	\$2,852,298
Transportation Lightweighting for Clean, Efficient Vehicles and Human Protection	\$861,091
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$95,773

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... / University of Waterloo

* Advanced Infrastructure for Dynamic Imaging and Control of Complex Systems - ALLS+ (Université du Québec - Institut national de la recherche scientifique)	\$285,696
11 projects / projets	\$13,202,155

University of Windsor

Real-time Aquatic Ecosystem Observation Network (RAEON)	\$4,125,780
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$34,000
2 projects / projets	\$4,159,780

York University

Centre for Neuro-Behavioral Monitoring Using Advanced Technologies	\$3,106,516
* The CRDCN Transition to High Performance Computing: Liberating Data for Research and Policy (McMaster University)	\$42,000
* Upgrades to the ATLAS Detector at the Large Hadron Collider (University of Toronto)	\$900,000
3 projects / projets	\$4,048,516

NOTE / À NOTER

As part of this announcement, an additional \$46,216,097 was awarded under the Infrastructure Operating Fund (IOF), a mechanism that assists institutions with the incremental operating and maintenance costs associated with the new infrastructure. / Cette annonce comprend l'attribution d'une somme additionnelle de 46 216 097 dollars du Fonds d'exploitation des infrastructures. Les établissements utilisent ces montants pour assumer une partie des coûts d'exploitation et de maintenance de la nouvelle infrastructure.

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