

**Leaders Opportunity Fund / Fonds des leaders
Backgrounder / Fiche d'information**

Ontario

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$14,463,668 to support 93 infrastructure projects. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 14 463 668 \$ en vue d'appuyer 93 projets d'infrastructure.

Project Title / Titre du projet	Maximum CFI Contribution / Contribution maximale de la FCI
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Brock University

Infrastructure for the Synthesis and Study of New Molecule-Based Materials	\$25,542
1 project / projet	\$25,542

Carleton University

Advanced Laboratory for Heterogeneous Communication Networks	\$150,000
Centre for Cognitive Neuroscience: Language and Brain (CCN.LaB)	\$137,792
Micro-Cogeneration Research Facility	\$75,000
Positron Emission Object Tracking and Dynamic Dual-Energy X-Ray Imaging Research Facility for Image-Guided Radiation Therapy and Interventional Procedures	\$120,000
The Antecedents and Consequences of Gambling Pathology	\$141,167
5 projects / projets	\$623,959

Lakehead University

Fire Resistance Testing Laboratory	\$189,830
1 project / projet	\$189,830

Laurentian University / Université Laurentienne

Field Assessment of Boreal Shield Sediment Budgets and Landscape Change	\$59,709
Laboratoire de recherche en santé cognitive	\$170,772
The Use of Atomic Force Microscopy and Scanning Tunneling Microscopy in the Development of Sensors that Incorporate Gold Nanoparticle Assemblies	\$87,058
3 projects / projets	\$317,539

McMaster University

Creation of a Transdisciplinary Laboratory for Neurocognitive Studies of Language Function, Dysfunction, and Acquisition	\$252,607
Extreme Dynamic Load Simulator	\$110,000
Infrastructure to Support Watershed Ecohydrology Research: Ecosystem Impacts and Restoration	\$153,029
Pathobiology of Infectious Disease: Infrastructure for Microbial Biochemistry and in Vivo Imaging	\$374,759
Thick Specimen Confocal Microscope for Environmental and Health Research	\$179,639
5 projects / projets	\$1,070,034

Queen's University

Dynamics of Sensorimotor Computations for Perception and Action: Modeling and Experiments	\$200,000
Elastomeric Polymers for Tissue Engineering: Building Biomimetic Scaffolds	\$125,000
Enhanced Disease Surveillance for the Rapid Detection and Mitigation of Gastrointestinal Illness Outbreaks Caused By Drinking Water System Contamination	\$150,000
Infrastructure for the Search of Quantum Entanglement in Electrochemical Processes Involving Hydrogen	\$199,390
Laboratory and Field Equipment to Study Eco-Evolutionary Feedbacks in Coupled Ecological Systems	\$131,200
Neurocognition and Functional Disability in Schizophrenia: Assessment and Intervention	\$74,500
New Process Development for Complex Copper and Nickel Ores and Concentrates	\$100,000
Origins of Biodiversity	\$120,000
Percutaneous Oncology Intervention Laboratory	\$400,000
Probiotics and Gastrointestinal Diseases	\$180,000
Tissue Engineering with Adipose-Derived Stem Cells	\$100,000
Translating New Anti-Cancer Treatments into Population Benefit: A Provincial Chemotherapy and Outcomes Database	\$78,624
Ultra-High Efficiency InGaN Solar Photovoltaic Cells	\$200,000
13 projects / projets	\$2,058,714

Trent University

A Cognitive Science Laboratory for Studying Reading as an Embodied Process	\$58,036
Equipment for the High-Throughput Analysis of the Evolution of Range Limits	\$46,474
Hydrogeochemical Laboratory for Model Input Parameters (MIPS Laboratory)	\$86,000
3 projects / projets	\$190,510



University of Guelph

A Novel Approach to the Determination of Anesthetic Efficacy in Animals	\$72,356
High-Performance Computing Facility for Studies of the Dynamics of Self-Assembling Block Copolymers	\$120,376
Hormonal Signaling in Marine Ecosystems	\$125,000
Infrastructure for Studies of Grasslands, Species Loss, and Global Environmental Change	\$98,091
Infrastructure for the Study of the Neural Bases of Memory in Rodents	\$315,922
Infrastructure to Support Lipidomics Research	\$126,318
Laboratory and Field Equipment for Investigations of Organic Chemical Contamination in Fractured Rock Beneath Industrial Sites	\$188,200
Laboratory for Integrated Study of Vascular Cell Biology	\$123,911
Pervasive and Wireless Networking Research Laboratory	\$101,804
Remote Tracking Laboratory for Migratory Animals	\$120,464
10 projects / projets	\$1,392,442

University of Ontario Institute of Technology

A Reconfigurable Motion Base Vehicle Simulator	\$73,000
Bacterial Membrane Transport Laboratory	\$30,001
Materials Science Characterization Laboratory	\$32,000
3 projects / projets	\$135,001

University of Ottawa / Université d'Ottawa

Aboriginal Health: Metabolic and Behavioral Field Research Unit	\$75,001
Acquisition d'instruments de suivi de l'évolution de la glace en lac et en rivière	\$50,061
Advanced Coatings and Bulk Materials for the Canadian Aerospace and Energy Industries	\$180,000
Combined Cell Biology and Proteomics Strategy for Analysing the Regulation of Protein Phosphatase 1 (PP1) in Mammalian Cells	\$210,700
Creation of a Translational Spinal Cord Repair Laboratory	\$60,000
High-Pressure High-Temperature Gas-Solid Fluidization Laboratory	\$66,975
Laboratoire Éducation Musicale, Lecture et Écriture (LabÉMLÉ)	\$92,500
Laboratory for Natural Product Biotechnology	\$130,348
Molecular Genetics and Cardiac Regeneration Laboratory	\$388,634
Perinatal Health Research: Effectiveness and Efficiency of Health Care Services in Ontario and Beyond	\$58,121
Plant-Pollinator Interactions and Angiosperm Evolution Laboratory	\$64,292



.../...University of Ottawa / Université d'Ottawa

Practical Approaches for Extending the Mechanics of Unsaturated Soils into Engineering Practice	\$65,000
The Transcriptional Control of Skeletal Muscle Differentiation and Regeneration: a Role for C/EBPbeta	\$58,120
13 projects / projets	\$1,499,752

University of Toronto

5th Generation Electron Beam Line: "Molecular Movie Studio"	\$120,000
A Two-Photon Microscope for Quantitative Live Cell Imaging and Integration with Microfluidic Platforms	\$334,999
Aegean Material Culture Laboratory	\$92,234
Biobehavioural Addictions and Concurrent Disorders Research Laboratory (BACDRL) at CAMH	\$98,596
Carbon-11 Synthesis Module	\$101,366
Cellular Microbiology Facility for Research into the Interaction of Dendritic Cells with Commensal and Pathogenic Flora	\$186,121
Centre for the Systematic Mapping of Genetic Interactions in C. Elegans and Drosophila	\$394,796
Digital High-Speed Optical Imaging System - Towards a Better Understanding of Earthquakes and Dynamic Fractures	\$150,000
Earhome Laboratory (ELab) Project	\$165,000
Expanding Yeast Genome-Wide Chemogenomic Screens to Human Cells	\$148,000
Experimental Facilities for Research on Active Flow Control of Transitional and Turbulent Flows	\$149,833
Facility for the Chemical Biology of Organelle-Specific Drugs	\$200,000
High-Throughput Screening Resource for the Isolation of Phage-Displayed Antibodies and Peptide Ligands	\$298,240
Histone-Like Proteins and the Control of Bacterial Virulence Gene Expression	\$131,929
Imaging Equipment to Monitor Protein Dynamics in Cell Polarity and Signal Transduction	\$379,330
Infrastructure for Experimental Research on Passive Flow Control for Reduction of Bluff-Body Drag and Suppression of Vortex-Induced Vibration	\$150,000
Laboratory for Plant Evolutionary Genomics	\$254,000
Optical Spectroscopy: Unique Tools Providing Key Insights and Novel Devices	\$340,000
Proteomic Tools for the Analysis of Chaperone Interaction Networks	\$139,260
Systems Biology Facility for Metabolomics of Plant Hormone Metabolisms	\$330,000
The Role of Bacterial Programmed Cell Death in Biofilm Infections	\$106,847
Trace Metal and Metal Isotope Biogeochemistry Laboratory	\$440,000
22 projects / projets	\$4,710,551



University of Waterloo

Center for Small Scale and Thin Film Mechanical Behaviors	\$92,000
Geomodeling Glaciated Terrains	\$100,000
Infrastructure to Study Skeletal Muscle Apoptosis and Adaptation during Exercise and Disease	\$164,400
Subsurface Imaging for Improved Contaminant Transport Predictions	\$100,000
Virus Containment Suite for the Study of Vector and Vaccine Production in Animal Cells	\$78,000
Vision Physiology and Cell Biology Laboratory	\$125,000
6 projects / projets	\$659,400

University of Western Ontario (The)

A Laboratory for Investigating the Role of Fetal Programming in Metabolic Syndrome	\$288,000
Centre for the Study of Biomaterials and Tissue Regeneration	\$162,718
Nanobeam Materials Analyser for Probing Planetary Evolution and Resources (NanoMAPPER); an Innovation in Planetary Materials Science	\$310,051
Translational Cytogenomic Infrastructure for Detection and Characterization of Chromosomal Abnormalities	\$212,039
Translational Imaging Centre for Cardiovascular Outcomes Research (TRICORE)	\$359,419
5 projects / projets	\$1,332,227

University of Windsor

Investigation of Behavior of Wrinkled Pipes and Ship Hulls under Static and Cyclic Loads	\$49,647
1 project / projet	\$49,647

Wilfrid Laurier University

Environmental Scanning Electron Microscopy Infrastructure for Integrative Research in Plant Biodiversity, Evolution, and Biogeography	77 521 \$
Multi-User Confocal Microscope for Gene Expression Analysis	130 999 \$
2 projects / projets	208 520 \$