

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

**Ontario**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$9,273,271 to support 62 infrastructure projects. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 9 273 271 \$ en vue d'appuyer 62 projets d'infrastructure.

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

Integrated Tools for DNA, RNA and Bioconjugate Synthesis	\$77,309
<b>1 project / projet</b>	<b>\$77,309</b>

**Carleton University**

Advanced Microscopic and Spectroscopic Facilities to Study Antimicrobial Peptides	\$114,748
Fish Ecology and Conservation Physiology Field Laboratory	\$113 653
<b>2 projects / projets</b>	<b>\$228,401</b>

**Laurentian University / Université Laurentienne**

Sediment Analysis and Paleolimnological Research Laboratory	\$49,412
<b>1 project / projet</b>	<b>\$49,412</b>

**McMaster University**

Advanced Structural Control Testing Equipment and Full-Scale Monitoring System	\$106,334
Equipment for Measuring Biological Responses to Biomaterials	\$99,331
Microfabrication and Microfluidic Testing Facility for Plastic/Polymer Based Biomedical Devices	\$98,418
The Function and Regulation of Myogenic Progenitors During Aging and Exercise	\$120,000
<b>4 projects / projets</b>	<b>\$424,083</b>



### Queen's University

Adolescent Socioemotional Development Laboratory	\$54,970
Facility for Research on the Neural Basis of the Affective Component of Pain	\$120,000
Infrastructure for MEMS/NEMS Dynamic Testing	\$206,962
Nanophotonics Computer Cluster: Physics and Applications of Photonic Nanostructures	\$165,000
<b>4 projects / projets</b>	<b>\$546,932</b>

### Trent University

Laboratory for Coherent Control of Novel Molecular States	\$102,637
The Synthesis, Characterization and Identification of Atmospheric Pollutants and Degradation Products in the Canadian Troposphere	\$175,206
<b>2 projects / projets</b>	<b>\$277,843</b>

### University of Guelph

Acquisition of a Confocal Laser Scanning Microscope for Live Imaging of Subcellular Responses to Environmental Stimuli	\$124,385
Development of a Comparative Epilepsy Program	\$80,836
Enhanced Infrastructure for Multi-Media Information and Communication Research for Rural Development	\$44,013
Laboratory for the Development of New Analog Integrated Circuits and Microsystems	\$135,004
Pattern Formation in the Cerebellum: Deciphering the Stripes	\$124,907
Presynaptic Modulation of Neurotransmission	\$124,773
Infrastructure for Establishment of a Body Composition and Energy Metabolism (BCEM) Laboratory	\$159,594
<b>7 projects / projets</b>	<b>\$793,512</b>

### University of Ottawa / Université d'Ottawa

Bioimaging Laboratory	\$113,359
Computing Infrastructure Supporting Theoretical Developments in Molecular Evolution, Genomics and Bioinformatics	\$60,385
Establishment of an Experimental Embryology, Microscopy and Electrophysiology Laboratory to Study the Molecular Basis of Congenital Neuronal Defects and Stroke Recovery	\$140,000



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

High Throughput Screening to Identify Novel Oncolytic Viruses and Mechanisms of Therapeutic Action	\$140,000
Knowledge Discovery and Data Mining Laboratory at the School of Management, University of Ottawa	\$15,641
Laboratory for Integrative Microbiology	\$139,199
Laboratory for Sensorimotor Neuroscience	\$130,508
Marine Minerals Research Laboratory	\$100,336
Mechanisms of Pseudomonas Aeruginosa Biofilm-Specific Resistance to Antibiotics	\$124,190
Research Facility for the "Aging and Movement" Research Program	\$108,046
Laboratory for the Quantitative Analysis of Morphogenesis	\$100,000
Toward New Synthetic Methods Involving Photochemistry and Transition-Metal Catalysis; Development of Enantioselective Variants; Application to the Synthesis of Bioactive Natural Products	\$159,984
<b>12 projects / projets</b>	<b>\$1,331,648</b>

**University of Toronto**

Bone Engineering	\$396,553
Developing Social Brains	\$239,747
Development Platform and Testbed for Peer Network Protocol Architectures	\$200,000
Facility Integrating 2-Photon Imaging and Electrophysiology for Neurodevelopmental Research	\$302,401
High-Throughput Cell and Molecular Biology Facility for Functional Genomics Studies of Developmental Phase Transitions and Hormone Cross-Talk	\$100,000
Laboratory for Cellular Systems Biology	\$234,313
Laboratory for Functional Tissue Engineering	\$112,750
Numerical Astrophysical Laboratory for Planetary Studies	\$200,000
Quaternary Paleoecology Laboratory, University of Toronto	\$155,784
Role of Subcellular Localization of Sphingosine-1-Phosphate (S1P)-Related Signaling Proteins in Microvascular Function	\$243,105
Systems Biology Facility for Proteomics of Plant-Microbe Interactions	\$199,895
<b>11 projects / projets</b>	<b>\$2,384,548</b>

### University of Waterloo

Facility for the Advancement of Underwater Sampling Technology	\$159,000
<b>1 project / projet</b>	<b>\$159,000</b>

### University of Western Ontario (The)

A Behavioral Gene Discovery Laboratory for Integrative Neuroscience	\$353,562
A Mobile Field Laboratory for Integrative Ecological Research (Western FLIER)	\$295,424
Equipment for Integrated Research on Deformation Structures in the Continental Lithosphere	\$178,272
Heating, Soil Monitoring and Nutrient Analysis Infrastructure for Long-Term Climate Simulations in the Field	\$174,645
Lake and Reservoir System Research Facility (LARSRF)	\$235,320
Molecular Regulation of Breast Cancer Cell Metastasis	\$253,217
Photonic Crystal Based Micro- and Nano-Sensors Facility	\$166,126
<b>7 projects / projets</b>	<b>\$1,656,566</b>

### University of Windsor

Acoustic Location Systems and Advanced Recording and Playback Technology for Studying Communication Networks in Temperate and Tropical Birds	\$50,000
Scientific Computing Facility for the Computational Study of Ultrafast Light-Matter Interactions	\$50,000
<b>2 projects / projets</b>	<b>\$100,000</b>

### Wilfrid Laurier University

An Ultracentrifuge for Isolating Membranes of Chloroplasts and Other Sub-Cellular Compartments and for Purifying DNA and Proteins	\$41,429
Environmental Surface Chemistry Studies: Development of Interdisciplinary Approaches for Investigating Interfacial Processes in Environmental Systems	\$50,662
High-Resolution Optical Microscopy and Microspectroscopy System for the Studies of Colloids, Self-assembly, and Advanced Materials	\$24,051
<b>3 projects / projets</b>	<b>\$116,142</b>

**York University**

A Facility for the Biogeographical Comparison of the Morphology and Physiology of Invasive Plant Species	\$203,022
Brain Mechanisms of Selection and Object Representation	\$236,918
Facility for Fabrication and In-Situ Micromapping of Polymer-Grafted Membrane-Mimetic Surfaces	\$219,983
Intense Source of Cold Positronium Atoms for Precise Measurements of Atomic Structure and Tests of QED	\$241,434
Laboratory for the Study of Energy Balance and Metabolic Partitioning	\$226,518
<b>5 projects / projets</b>	<b>\$1,127,875</b>