

John R. Evans Leaders Fund / Fonds des leaders John-R.-Evans Backgrounder / Fiche d'information

Ontario

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$10,903,220 to support 67 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 10 903 220 \$ en vue d'appuyer 67 projets d'infrastructure dans la province.

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

Eye Movements and Electrophysiological Activity as Markers of Age-related Cognitive Change	\$76,241
Metabolic Phenotyping Using In Vivo Indirect Calorimetry Infrastructure	\$165,467
2 projects / projets	\$241,708

Carleton University

Multimodal Assessment of Human Cognition in Laboratory and Naturalistic Settings (MACLaN)	\$124,385
Laboratory for Epithelial Ecophysiology and Molecular Biology	\$80,000
Investigating Mineralizing Processes in Layered Mafic Intrusions using SEM-based Microtextural and Chemical Analysis	\$60,000
Investigating the Molecular Mechanisms Between Emerging Environmental Contaminants and the Lipid Metabolome	\$60,000
4 projects / projets	\$324,385

Lakehead University

NMR project	\$515,535
1 project / projet	\$515,535

McMaster University

Establishment of the Memory, Action, & Cognition Laboratory for the Study of Human Sensorimotor Neuroscience	\$127,514
Catalyst Nanomaterial Synthesis, Characterization and Device Integration Suite for Sustainable Energy Technologies	\$150,000
Bacteriophages and the Gut Microbiome	\$160,000
Synthetic Medicinal Chemistry Platform for Antimicrobial Drug Discovery	\$200,000
Chemical Strategies to Modulate Ternary Complex Protein Assembly	\$180,000

.../ McMaster University

Platform for Smart Biomaterials	\$200,000
Investigating the Genetic and Biochemical Pathways that Regulate Hemostasis	\$400,000
Human Energy Balance and Metabolic Phenotyping Laboratory	\$395,000
Fault Management Power Electronics Laboratory	\$80,000
9 projects / projets	\$1,892,514

Queen's University

Using Systems Biology to Investigate Leukemic and Normal Stem Cells	\$162,500
Predictive Immune Monitoring Approaches for Precision Cancer Chemo-Immunotherapy	\$150,000
Nanophotonic Neuromorphic Computing	\$132,500
Astroparticle Theory Laboratory	\$49,970
Driving Innovation: Establishing a Mobile Inclusive Music Theatre Makerspace	\$40,800
Development of a Scintillating Bubble Chamber	\$189,951
Selective Laser Melting of Reactive/Sensitive Metals for Aerospace, Automotive and Medical Applications	\$125,000
Unpacking the Transition from Suicide Ideation to Attempts in Adolescents	\$100,000
Dark Stars and New Physics from Neutrinos	\$50,000
9 projects / projets	\$1,000,721

Trent University

Maritime Archaeology Research Laboratory Infrastructure	\$158,414
Agricultural Soil Health Laboratory	\$163,779
2 projects / projets	\$322,193

University of Guelph

Laboratory for the Study of Neuronal Development and Plasticity in Health and Disease	\$72,245
TI-STAR: A Tracking Detector for Experiments with Exotic Nuclei at TRIUMF	\$186,000
Infrastructure for a Neuroscience Laboratory Studying Co-occurring Addiction and Mental Illness	\$97,087
New Genomic Technologies to Tackle Fungal Pathogens	\$71,819
4 projects / projets	\$427,151

University of Ottawa / Université d'Ottawa

Legal Text Mining	\$74,901
Single-cell Characterization of Drug Response in Human Cancer Stem Cell Populations	\$208,675
Deciphering Metabolic Plasticity and Remodelling in the Normal and Diseased Heart	\$101,368
Elucidating the Role of Effector Proteins in Promoting Arbuscular Mycorrhizal Symbiosis	\$157,653

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

Visualizing Epigenomics in Real Time	\$231,091
Elucidating Ion Channel Function for Improved Drug Discovery	\$147,873
Mechanobiology-inspired Regenerative Medicine	\$107,927
7 projects / projets	\$1,029,488

University of Toronto

The Role and Fate of Inorganics in the Industrial Processing of Woody Biomass	\$160,000
Interdisciplinary Research Centre for Sexual and Gender Minority Health	\$247,329
Towards Personalizing Arthritis Medicine	\$281,018
Super-resolution Live-cell Imaging System for Membrane Contact Site Dynamics	\$442,349
Centre for the Study of Brain, Performance, & Music Creation (Centre BPMC)	\$400,000
Mitigating Endocrine Metabolic Disease Risk after Spinal Cord Injury	\$173,894
Decoding the Heterogeneity of Reactive Astrocytes	\$150,000
Genomic Portal for Polygenic Molecular Maps of the Brain	\$178,076
Infrastructure to Elucidate the Roles of Mitochondria in Germline and Stem Cell Biology	\$250,000
Sub-diffraction Limit Imaging of Matrix Degradation Machines	\$198,500
Multiscale Mechanics and Additive Manufacturing of New Metallic Materials for Aerospace and Biomedical Applications	\$250,000
11 projects / projets	\$2,731,166

University of Waterloo

Infrastructure to Characterize Capillarity and Wetting for Under-liquid Systems	\$150,000
Spectroelectrochemical Analysis of Heterogeneous Electrocatalysts	\$130,000
Histological and Functional Photoacoustic Remote Sensing (HF-PARS) Microscopy	\$91,830
Nanocatalyst Characterization and Performance Studies Platform	\$130,000
Triple Quadrupole Mass Spectrometer	\$100,000
5 projects / projets	\$601,830

University of Western Ontario (The)

Impact Earth Laboratory	\$200,000
G-Protein Coupled Receptor Signalling in Health and Disease	\$200,000
Neurocognitive Development of Sensory Processing in Autism	\$200,000
Lung Imaging to Transform Patient Outcomes	\$271,974
Measurements of Clouds, Aerosols, Forest Fire Smoke, and Volcanic Ash from a Network of Ceilometers	\$200,000
5 projects / projets	\$1,071,974

University of Windsor

Advanced Flow Management System for Development of Smart Sensor Systems and E-n se Mapping	\$48,000
Bioarchaeology and Forensics Portable 3D Osteology Lab	\$45,000
Transport Phenomena in Multiphase Reacting Flows for Performance Improvement of Sustainable Energy Systems	\$68,615
INCUBATOR Lab: Advanced Bioart Laboratory and Multimedia Theatre	\$100,000
4 projects / projets	\$261,615

Wilfrid Laurier University

Mass Spectrometry for Dissecting Phosphonate Tailoring of Bacterial Cell Surfaces	\$97,651
Functional Near-infrared Spectroscopy System for the Study of the Neural Mechanisms that Support Speech	\$76,020
2 projects / projets	\$173,671

York University

Behavioral Endocrinology of Primate Life Histories	\$142,000
Experimental Facility for Advanced Robotics and Mechatronics Research	\$167,269
2 projects / projets	\$309,269