

**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 \$13,380,158 to support 74 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 13 380 158 \$ en vue d'appuyer 74 projets d'infrastructure dans la province.

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

Sustainable Water Treatment Lab - Research Equipment Infrastructure Request	\$50,000
Contribution of Environmental Chemicals to Beta Cell Dysfunction and Death in Diabetes	\$80,000
Neurobiology of Energy Balance	\$80,000
Infrastructure to Develop Solid State Detectors for High Luminosity LHC	\$55,000
Diffraction Engineered Next Generation mm-Wave Wireless Networks using Smart Electromagnetic Metasurfaces	\$78,000
Integration and Co-Existence of Emerging Wireless Architectures	\$43,800
Grid Edge Transactive Energy Management System	\$60,000
Developing Integrative Simulation-based Research on Social Work Education & Practice	\$57,980
<b>8 projects / projets</b>	<b>\$504,780</b>

**McMaster University**

The Tissue Engineering for Advanced Medicine (TEAM) Lab: A Platform for Precision Prevention, Diagnosis, and Medicine	\$180,000
The Biological Signatures of Clinical Progression in Bipolar Disorder	\$140,000
Liquid Metal Engineering of Lightweight High Strength Low Alloy Steels and Aluminum-Zinc Alloys	\$200,000
<b>3 projects / projets</b>	<b>\$520,000</b>

**Queen's University**

Ambient Intelligence and Interaction: Sensing, Analysis, and Actuation	\$125,000
A Smart Big Data Analytics and Knowledge Management Framework	\$80,000
<b>2 projects / projets</b>	<b>\$205,000</b>

**University of Guelph**

Microbial Interactions with Food Components and the Gut Microbiota During Digestion	\$140,001
Pedestrian Behavior Lab: Street-crossing Simulator to Study Risk Factors and Training System for Injury Prevention	\$41,997
Translational Emotion Science and Youth Well-being	\$18,867
Digital Design Research Hub – Landscape Architecture-Innovations in Landscape Architecture	\$50,001
Terahertz Technologies for the Detection of Microbes, Allergens, and Foreign Objects in Food Products	\$83,992
<b>5 projects / projets</b>	<b>\$334,858</b>

**University of Ontario Institute of Technology**

Surface Characterization Laboratory	\$100,189
<b>1 project / projet</b>	<b>\$100,189</b>

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

Preclinical Investigation of Novel Therapies for Bronchopulmonary Dysplasia	\$154,360
Cold Climate Agri-food and Small Community Mobile Wastewater Research Facility	\$171,614
NeuroHealth and Rehabilitation Research Centre (NHR2C)	\$332,152
Linked Culture Lab	\$109,853
Understanding the Role of Dipeptidyl Peptidase 4 in Type 2 Diabetes and Cardiovascular Disease	\$225,000
Recording and Manipulating Brain Circuits with Light	\$109,594
Multimodal Stimulated Raman Microscopy Laboratory	\$705,863
<b>7 projects / projets</b>	<b>\$1,808,436</b>

**University of Toronto**

Materials Characterization System for Developing and Testing Self-sensing Cementitious Composites	\$127,000
Enabling Biomarker Identification and Treatment Optimization for Prevalent Neurological Disorders	\$124,209
Cell Therapy for Organ Repair, Restore, Regenerate and Support (COR3S)	\$397,925
Neural Control of Reward Seeking and Behavioural Control	\$240,000
Microultrasound for Diagnosis and Image-Guided Intervention	\$430,983
Tracking Trajectories for Vulnerable Children: Using Data to Understand Outcomes	\$234,700
Novel Mechanisms of Heart Failure: Discovery to Translation	\$333,025
Improving Outcomes for Organ Transplantation: A Live Imaging Platform to Target Immunologic and Fibrotic Events	\$379,033

.../ **University of Toronto**

Cellular and Molecular Mechanisms Underpinning the Initiation, Progression and Metastasis of Pancreatic Cancer	\$312,015
Ultrasound Technology for Image-guided Interventions in the Spine	\$120,000
Infrastructure for the Unbiased Identification of Environmental Chemicals and their Protein Targets	\$250,000
Development of Reasoning about the Self	\$100,000
The CardioLink Research Platform: Innovations in Cardiovascular Surgery & Cardiometabolic Care	\$377,909
Collaborative Mobile Interaction Workshop	\$250,000
High Dimensional Single Cell Immuno-analytic Platforms for Deciphering Immune Complexity in Health and Disease	\$799,071
A Viral Pathogenesis Laboratory for the Study of HIV Disease and Host Immunity	\$100,000
Synaptic, Cellular and Circuit Mechanisms Underlying the Cortical Control of the Optokinetic Reflex	\$200,000
The Centre for Multimodal Sensorimotor and Pain Research	\$140,000
Neural and Physiological Correlates of Bilingual Development across the Life Span	\$80,000
Skin Immune Cells and Pathogens Facility (SPF)	\$80,000
Infrastructure for Advanced Structure and Spectroscopic Studies of G-Protein-Coupled Receptors	\$121,860
Infrastructure for the Study of Microsporidia and the Co-evolution of Host-pathogen Interactions	\$250,000
High-Resolution Mapping of Functional Genomic Elements in Spinal Motor Neurons	\$120,000
Integration of Long-term Data and Experimental Manipulation to Study Life-history Evolution Under Rapid Climate Warming	\$300,000
High Resolution Mass Spectrometry for Longitudinal Personalized Metabolomics Profiling	\$249,960
Improving Sustainability of Urban Infrastructure Systems	\$80,000
Knowledge Syntheses and Clinical Trials of Important Food Sources of Sugars and Cardiometabolic Health	\$100,000
Imaging and Electrophysiology Equipment for Multi-neuron Stimulation and Recording	\$457,011
Oxygen Is Poison – How Incorrect Modelling of the Human Microenvironment has Impeded Paediatric Research	\$469,246
* Facilitating the Resilience of Sexual and Gender Minority Youth: An Infrastructure to Leverage Research and Technology	\$80,000
<b>30 projects / projets</b>	<b>\$7,303,947</b>

\* Funding for Research Infrastructure Associated with SSHRC Research Support  
Financement de l'infrastructure liée au soutien à la recherche du CRSH

## University of Waterloo

A Testbed for Modern Cloud Storage Research	\$50,000
Social Interaction, Language and Culture Laboratory (SILC)	\$40,000
<b>2 projects / projets</b>	<b>\$90,000</b>

## University of Western Ontario (The)

Functional and Metabolic Assessment of Small Animal Models of Disease with MRI	\$200,000
Noise-Induced Hearing Loss and Brain Plasticity	\$200,000
From Circuits to Behaviour in Health and Disease	\$200,000
Biofilm Engineering and Resource Recovery Laboratory	\$200,000
<b>4 projects / projets</b>	<b>\$800,000</b>

## University of Windsor

Establishment of the Functional Organic Materials Research Centre	\$280,000
<b>1 project / projet</b>	<b>\$280,000</b>

## Wilfrid Laurier University

Infrastructure to Investigate How to Make Children Critical Consumers of Information	\$59,203
<b>1 project / projet</b>	<b>\$59,203</b>

## York University

A Molecular Immunology Laboratory to Elucidate the Mechanisms of Immune Regulation Following Exercise	\$135,000
Immersive Storytelling Lab	\$136,575
Fluorescence-Activated Cell Sorting for Muscle Cell Characterization and Purification	\$200,920
Investigation of Mechanisms Responsible for Diabetes and Heart Failure	\$180,270
Nanotechnology Enhanced Multifunctional Carbon Fiber Reinforced Polymer Space Structures	\$150,000
Facility for Assessing the Fire Resiliency of Building Materials	\$118,135
Digital Participatory Research and Physical Cultures Lab	\$49,664
Expanding the Chemistry of DNA	\$114,626
A Real-Time Digital Simulator to Develop Resilience-Oriented Protection Systems for Power Grids	\$150,000
Adaptable Liquid Chromatography System for Online and Offline Analysis of Trace Atmospheric Water-Soluble Compounds	\$138,555
<b>10 projects / projets</b>	<b>\$1,373,745</b>



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**NOTE:**

As part of this announcement, an additional \$4,014,047 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.

**À NOTER :**

Cette annonce comprend l'attribution d'une somme additionnelle de 4 014 047 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.