

**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 \$13,738,404 to support 86 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 13 738 404 \$ en vue d'appuyer 86 projets d'infrastructure dans la province.

| Project Title / Titre du projet | Maximum CFI Contribution / Contribution maximale de la FCI |
|---------------------------------|--|
|---------------------------------|--|

**Brock University**

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|--|-----------------|
| Investigating Neuromuscular Control Strategies Using Haptic Robotics | \$96,732        |
| <b>1 project / projet</b>  | <b>\$96,732</b> |

**Carleton University**

|   |                  |
|---|------------------|
| Creative Interactions Lab: Emerging User Interfaces for Digital Media | \$107,000        |
| Advanced Sensor Signal Processing Laboratory                          | \$150,000        |
| Aquatic Ecosystems and Environmental Change Laboratory                | \$84,000         |
| <b>3 projects / projets</b>   | <b>\$341,000</b> |

**McMaster University**

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|--|--------------------|
| Electro-Functional Membranes: Selective Separations and Catalytic Degradations of Environmental Contaminants | \$125,000          |
| Proteomics Laboratory to Investigate Alternative Splicing Regulation in Stem Cell Differentiation            | \$400,000          |
| Networked Imagination: A Laboratory for Network Music and Live Coding  | \$188,123          |
| Multiscale Functional Material Modelling for Energy Applications   | \$100,000          |
| Infrastructure for Development of Advanced Silicon Photonic Materials, Devices, and Microsystems             | \$155,000          |
| The Development of a Clinical Environment Compatible Surgical Oncology Margin Detection System               | \$113,553          |
| Flexible NeuroIS User Experience Lab   | \$284,411          |
| <b>7 projects / projets</b>  | <b>\$1,366,087</b> |

**Nipissing University**

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|--|------------------|
| Infrastructure to Support the Nipissing University Social Neuroendocrinology Lab | \$128,811        |
| <b>1 project / projet</b>  | <b>\$128,811</b> |

**Queen's University**

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|--|------------------|
| Reservoir Monitoring Using Superconducting Gravimetry  | \$180,000        |
| Neural Mechanisms Underlying Cognitive Transformations for Human Goal-directed Action                      | \$150,000        |
| Germanium Detectors to Understand Neutrinos and Dark Matter  | \$250,000        |
| Building and Designing Assistive Technology  | \$125,000        |
| The Precision Imaging Program: Advanced Computational Methods for Quantification of Cardiovascular Disease | \$120,000        |
| State-of-the-art Signal Transduction and Molecular Biology Laboratory                                      | \$125,641        |
| <b>6 projects / projets</b>  | <b>\$950,641</b> |

**Ryerson University**

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|---|------------------|
| Advanced Space Dynamics and Control Test Facility | \$128,000        |
| <b>1 project / projet</b>                         | <b>\$128,000</b> |

**Trent University**

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|--|------------------|
| Infrastructure for Studying Neurogenesis in Health and Disease           | \$99,928         |
| A Novel Approach to Studying Neurodegeneration                           | \$50,000         |
| Long Term Environmental History in the North Pacific and Canadian Arctic | \$48,910         |
| <b>3 projects / projets</b>  | <b>\$198,838</b> |

**University of Guelph**

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|--|------------------|
| Understanding Cardiovascular Response and Influence to Physical Exercise                                   | \$102,940        |
| High Throughput Histology Suite for the Discovery of New Mechanisms for Improved Osteoarthritis Treatments | \$105,965        |
| Profiling Adaptive Immune Responses in Animals   | \$74,135         |
| The Long-term Effects of the Early-life Environment: Integrating Ecology and Physiology                    | \$105,965        |
| Genomic Innovations in Crop Genetics and Breeding  | \$102,389        |
| Automatic Radio Tracking of Pollinator Movements at a Landscape Scale: Foraging and Dispersal              | \$105,001        |
| <b>6 projects / projets</b>  | <b>\$596,395</b> |

**University of Ontario Institute of Technology**

|   |                 |
|---|-----------------|
| The Sport & Physical Activity Research Collaborative (SPARC) Facility at UOIT | \$49,461        |
| <b>1 project / projet</b>   | <b>\$49,461</b> |

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

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|--|--------------------|
| Disentangling the Climatic Mechanisms that Structure Species' Distributions and Interactions | \$145,000          |
| Remodeling of the Cerebral Vasculature in Health and Disease                                 | \$252,589          |
| Custom Low-dimensional Material Systems Explored from Atom to Bulk                           | \$256,500          |
| New Discoveries through Activity-based Protein Profiling                                     | \$200,001          |
| 2D Material Optoelectronics  | \$345,708          |
| New Tools and Methods for Organic Synthesis  | \$147,067          |
| Epigenetic Determinants of the Metabolic Phenotype in Teleosts                               | \$219,576          |
| <b>7 projects / projets</b>  | <b>\$1,566,441</b> |

**University of Toronto**

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|--|-----------|
| High Content Screening to Identify and Validate Potential Therapeutic Targets                                      | \$615,894 |
| Electron Microscopy for the Engineering of Novel Bactericidal Nanomachines Derived from Bacteriophages             | \$399,980 |
| Remuscularization of Injured Hearts using Stem Cells   | \$214,569 |
| Laboratory for Mechanistic Studies of Myeloid-Driven Immune Suppression  | \$398,219 |
| Rehabilitation Aimed at Muscle Performance (RAMP)  | \$75,000  |
| Advanced Optical Instrumentation Laboratory for Large Astronomical Telescope Instrument Development                | \$138,000 |
| Movement Assessment and (Re)Training for the Prevention of Musculoskeletal Disorders                               | \$199,090 |
| Noninvasive Brain Stimulation for Speech and Language Development  | \$108,791 |
| Personalized Microbiology, Infection and Immunity  | \$259,938 |
| Stem Cell Derived Neuron Phenotyping and Drug Screening Platform   | \$188,744 |
| Immunotherapy for Chronic Viral Hepatitis  | \$218,378 |
| Investigating the Response of Gravelly Soils to Earthquake Loading through Large Scale Cyclic Simple Shear Testing | \$150,000 |
| Developing New Strategies and Technologies to Fight Fibrosis   | \$250,056 |
| Robotic Radiobiology   | \$396,428 |
| Observing and Manipulating Brain Function  | \$798,057 |
| How Recombination Alters Selection in the Genome   | \$120,000 |

## ... / University of Toronto

|   |                    |
|---|--------------------|
| Control and Adaptive Responses of the Plant Metabolome  | \$140,000          |
| Developing the University of Toronto Sport and Performance Psychology Lab   | \$61,341           |
| Infrastructure for the Study of Excitonic Materials and the Development of Nanocrystal-sensitized Photon Upconversion | \$250,000          |
| <b>19 projects / projets</b>  | <b>\$4,982,485</b> |

## University of Waterloo

|   |                    |
|---|--------------------|
| Coupled Human and Natural Systems Laboratory (CHANS-lab)  | \$85,166           |
| Infrastructure for WaterlooBCI Laboratory   | \$50,000           |
| Discovery and Synthesis of Nanomaterials for Ubiquitous Electronics   | \$80,000           |
| Computational Infrastructure for Simulating Lake, Atmosphere and Ocean Dynamics                                       | \$188,715          |
| Interactive Data Exploration and Analysis (IDEA) System   | \$70,000           |
| Nanotopography Platform for Stem Cell   | \$100,000          |
| Assessing Children's Learning in Naturalistic Contexts: Supporting Collaborative Research in Developmental Science    | \$60,000           |
| Quantum Materials at Ultra Low Temperatures   | \$171,600          |
| Critical Media Prototyping Suite  | \$40,000           |
| Advanced Composites Processing Infrastructure for Next-Generation Lightweight Vehicles                                | \$75,000           |
| SURGE - The Stratford User Research and Gameful Experiences Lab   | \$60,000           |
| Waterloo Virtual Reality Storytelling Lab   | \$35,000           |
| Modelling Sustainable Systems for Climate, Clean Air, and Clean Energy  | \$50,000           |
| Language Interaction Laboratory   | \$40,000           |
| Catalytic Performance Evaluation System   | \$50,000           |
| Trant Eco-cultural Legacy (TEL) Lab: Promoting Conservation, Ecology and Science Communication in Changing Landscapes | \$28,047           |
| Integrated Micro-mechanical Testing Instrumentation System  | \$75,000           |
| High-resolution Real-time Three-dimensional (3-D) Ultrasound Medical Imaging Research                                 | \$50,000           |
| Development of New Ultrasound Imaging Tools for High-Frame Rate Vascular Diagnostics                                  | \$100,000          |
| <b>19 projects / projets</b>  | <b>\$1,408,528</b> |

**University of Western Ontario (The)**

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|---|--------------------|
| Integrated Lab for the Development of Catalysts for Sustainable Synthesis                                       | \$200,000          |
| Cellular and Molecular Analysis of Gastrointestinal Stem Cells  | \$200,000          |
| Mobility: Occupationally Valid Evaluation & Intervention Technologies in Targeted E-health, Exercise & Activity | \$200,000          |
| Mapping the Primate Lateral Prefrontal Cortex Mesoconnectome using Two-photon Excitation Microscopy             | \$267,948          |
| Seismic Vibrations and Excitations Laboratory   | \$200,000          |
| <b>5 projects / projets</b>   | <b>\$1,067,948</b> |

**University of Windsor**

|  |                  |
|--|------------------|
| Investigation of Nanoscale Smart Surfaces  | \$284,101        |
| Automated Liquid Handling Facility for Environmental Research at the Cellular, Organismal and Ecosystem Levels | \$71,855         |
| Animal Tissue Preparation Infrastructure   | \$17,500         |
| PROTO Benchtop AXRD Powder X-ray Diffractometer  | \$41,581         |
| <b>4 projects / projets</b>  | <b>\$415,037</b> |

**York University**

|   |                  |
|---|------------------|
| Diagnosis of Squamous Cell Carcinoma Through Combined Mass Spectrometry Imaging, Metabolomics and Multivariate Analysis | \$150,000        |
| Facility for Women's Reproductive Health Research   | \$147,000        |
| Laboratory for Ultrafast Thermo-magnetics   | \$145,000        |
| <b>3 projects / projets</b>   | <b>\$442,000</b> |

**NOTE:**

As part of this announcement, an additional \$4,121,521 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 4 121 521 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.