

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

**Alberta**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$2,725,989 to support 17 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 2 725 989 \$ en vue d'appuyer 17 projets d'infrastructure dans la province.

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

Laboratory for Microwave Processing in the Natural Resources Sector	\$125,000
Agricultural Biotechnology and Integrated Pest Management: Enhancing Agricultural Production in the Prairie Provinces	\$195,882
Establishment of a Cardiac Immunopathology Suite	\$132,197
Quantitative Analysis of SARS-CoV-2 Proteins for Clinical Diagnostics and Environmental Surveillance	\$158,616
Collaborative Ultrafast Spectroscopy Laboratory (CUSL) for Materials and Device Characterization	\$660,000
Human Chondrodysplasia Research Laboratory	\$160,000
Examining Tree Diversity and Productivity Relationships in an Experiment: Adaptation of Boreal Forests to Climate Change	\$185,150
An Infrastructure for Thermal Well Simulation at High Pressure and High Temperature	\$80,000
High Throughput Honey Bee Biology and Health Studies	\$100,000
Automation Infrastructure for both Fundamental and Applied Functional Genomics	\$88,886
An Electrophysiology Suite for Understanding Disorders of Membrane Transport	\$98,999
<b>11 projects / projets</b>	<b>\$1,984,730</b>

**University of Calgary**

Healthy and Resilient Communities Through Participatory Approaches to Sustainable Infrastructure	\$131,081
Multiaxial Ultrasound Transducers for High Precision Transcranial Therapy	\$140,178
Next Generation 3D Bioprinting for Organ-on-Chips	\$200,000
Intelligent Flow Control and FSI Research Facility for Wind Energy and Autonomous Systems	\$100,000

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## ... / University of Calgary

Decentralized Finance	\$50,000
Impact of Early Life Stress on Brain Networks and Mood Regulation	\$120,000
<b>6 projects / projets</b>	<b>\$741,259</b>

### NOTE:

As part of this announcement, an additional \$817,797 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 817 797 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.

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**British Columbia / Colombie-Britannique**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$3,267,902 to support 24 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 3 267 902 \$ en vue d'appuyer 24 projets d'infrastructure dans la province.

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

Thermo-Fluid Test Laboratory for Optimized, Additively Manufactured Designs	\$100,000
Development of an Innovative Combined Optical and Position Calibration System for Future Neutrino Telescopes	\$200,000
Innovative Multifunctional Materials for Enhancing the Performance and Longevity of CO2 Capture and Conversion Systems	\$200,000
Vehicle Track Interaction Research Laboratory	\$100,000
The Precursor Laboratory: Emerging Scenographic Technologies for Live Performance	\$316,000
<b>5 projects / projets</b>	<b>\$916,000</b>

**University of British Columbia (The)**

Infrastructure for Investigations of the Cognition, Behavior, and Ecology of Urban Wildlife	\$125,000
Language and Development Lab	\$92,999
Earth Observation and Spatial Ecology Lab	\$150,000
Integrated SOILRES Platform for Advanced Study of Soil Processes Driving Agroecosystem Resilience Under Climate Change	\$125,000
Infrastructure to Establish a Combined Regenerative and Precision Medicine Reproductive Research Program	\$125,000
DARE   Digital Archaeology Research Environment Lab	\$106,078
Fluvial Landscapes Platform (LegoFlume)	\$74,488
The Canadian Arcminute Resolution Magnetoionic Medium Survey (CARMIMS)	\$140,000
Development of Natural Language Processing & Machine Learning to Accelerate Breast Cancer Outcomes Research	\$125,000

**... / University of British Columbia (The)**

Metabolic Monitoring of Immune Cell Function	\$125,000
Automated Growth and Screening Platform for Elucidating Crop Water Requirements	\$125,000
Basic and Applied Investigations of Motor Imagery to Promote Recovery After Stroke	\$125,000
Quantitative Ecology Laboratory with a Focus on Animal Conservation	\$114,842
Functional Metabolism and Transport using Mass Spectrometry (MeTSpec)	\$180,000
Truth and Trust Lab: A Request for Observational, Physiological, and Social Judgment Research Infrastructure	\$121,376
A Functional Genomics Platform for Analysis of Cancer-associated Glycosylation	\$125,000
<b>16 projects / projets</b>	<b>\$1,979,783</b>

**University of Northern British Columbia**

Monitoring Extreme Climate and Hydrometeorological Events (MECHE)	\$97,150
Terahertz Innovation Hub	\$99,969
<b>2 projects / projets</b>	<b>\$197,119</b>

**University of Victoria**

Understanding People's Relationships with Data to Design Better Information Futures	\$175,000
<b>1 project / projet</b>	<b>\$175,000</b>

**NOTE:**

As part of this announcement, an additional \$980,371 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 980 371 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.

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**Manitoba**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$1,573,933 to support 8 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 1 573 933 \$ en vue d'appuyer 8 projets d'infrastructure dans la province.

<b>Project Title / Titre du projet</b>	<b>Maximum CFI Contribution / Contribution maximale de la FCI</b>
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**University of Manitoba**

Infrastructure to Advance Food Protein Processing and Bioproducts Applications	\$160,000
Characterizing Thin Layer and Deep Bed Drying to Optimize Grain Drying	\$149,945
Integrated Spatial and Temporal Fluorescence Spectroscopy to Quantify Nanoscale Events in Complex Biological Systems	\$160,000
Development of Spatial RNA-sequencing Platform to Understand Disease Heterogeneity	\$328,744
Electrical Lab-on-a-chip Devices for Medical and Biopharmaceutical Applications	\$159,731
Infrastructure to Study the Cellular and Molecular Mechanisms of Antiviral Immunity	\$344,376
<b>6 projects / projets</b>	<b>\$1,302,796</b>

**University of Winnipeg (The)**

Laboratory of Osteoarchaeology	\$151,137
Centre for Molecular Structure Determination	\$120,000
<b>2 projects / projets</b>	<b>\$271,137</b>

**NOTE:**

As part of this announcement, an additional \$472,180 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 472 180 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.

## **Newfoundland & Labrador / Terre-Neuve-et-Labrador**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$345,960 to support 2 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 345 960 \$ en vue d'appuyer 2 projets d'infrastructure dans la province.

Project Title / Titre du projet	Maximum CFI Contribution / Contribution maximale de la FCI
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### **Memorial University of Newfoundland**

The Micro-Ultrasound Lab: A Platform for Translational Preclinical Imaging	\$172,290
Advanced Imaging Facility for the Visualization of Live and Complex Biological Specimens	\$173,670
<b>2 projects / projets</b>	<b>\$345,960</b>

#### **NOTE:**

As part of this announcement, an additional \$103,788 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 103 788 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.

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**Nova Scotia / Nouvelle-Écosse**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$1,486,243 to support 8 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 1 486 243 \$ en vue d'appuyer 8 projets d'infrastructure dans la province.

<b>Project Title / Titre du projet</b>	<b>Maximum CFI Contribution / Contribution maximale de la FCI</b>
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**Dalhousie University**

Molecular Dissection of Circuits in the Visual System	\$125,000
International Migration Research Lab	\$49,112
Understanding Sex Differences in Pathophysiology of Right (-sided) Heart Failure for Development of Novel Therapies	\$125,000
Re-grounding Indigenous Women and Land and Water Based Laws	\$56,533
A biomolecular NMR Facility Supporting Structural Biology, Protein Engineering and Mechanistic Studies	\$800,000
Mi'kmaw Cultural Research Lab	\$70,265
Assessing and Leveraging Mountain Wetlands for Water Supply and Carbon Storage	\$85,000
Early Intervention to Reduce the Burden of Severe Mental Illness	\$175,333
<b>8 projects / projets</b>	<b>\$1,486,243</b>

**NOTE:**

As part of this announcement, an additional \$445,873 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 445 873 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.

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**Ontario**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$8,611,374 to support 47 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 8 611 374 \$ en vue d'appuyer 47 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**

Artificial Intelligence Enhanced Resilience-oriented Energy Management and Control for Cyber-physical Microgrids	\$75,001
High Resolution Raman Microspectroscopy for Tissue Engineered Materials and Devices	\$119,999
<b>2 projects / projets</b>	<b>\$195,000</b>

**Lakehead University**

Rational Design of Molecular-based Low-dimensional Quantum Materials	\$100,080
A New Research Infrastructure for Intelligent Diagnostics and Prognostics of Electric Machines	\$102,671
<b>2 projects / projets</b>	<b>\$202,751</b>

**McMaster University**

Laboratory Infrastructure to Optimize Methods for Treating Swallowing Impairments in People Living with Dementia	\$107,500
Chemistry at Environmental Interfaces: Implications for Air Quality, Pollutant Fate, and Cultural Heritage Conservation	\$120,000
<b>2 projects / projets</b>	<b>\$227,500</b>

**Queen's University**

State-of-the-art Live Imaging Platform to Study Plant Stress Signaling	\$61,487
Elucidating Drinking Water Quality Degradation in Distribution Systems and Premise Plumbing	\$125,000
<b>2 projects / projets</b>	<b>\$186,487</b>



## Ryerson University

Brain–environment Synchrony as a Path to Understanding Listening Success	\$76,000
Towards the Processing and Characterization of Bioactive Glasses	\$76,000
<b>2 projects / projets</b>	<b>\$152,000</b>

## Trent University

Facility for Synthetic Organic Chemistry and Catalysis	\$55,433
<b>1 project / projet</b>	<b>\$55,433</b>

## University of Guelph

High Resolution Soil Moisture from UAVs	\$36,392
<b>1 project / projet</b>	<b>\$36,392</b>

## University of Ontario Institute of Technology

Adaptive Hybrid Manufacturing of Reactive Metals	\$151,121
Cybersecurity and Resiliency Testing Infrastructure	\$78,949
<b>2 projects / projets</b>	<b>\$230,070</b>

## University of Ottawa / Université d'Ottawa

Spatially Resolved Single Cell Proteomics for Next Generation Translational Medicine	\$271,732
Assessment of Sex and Age Differences in Psychosis in Rodent Models of Alzheimer's Disease	\$252,186
Experimental and Computational Platform for Brain Dynamics	\$500,000
Probing Earth's deep time – Advanced Research Facility for Geochronology	\$292,428
Parallel Nanopore Electronics for High Throughput Nanopore Research	\$155,514
<b>5 projects / projets</b>	<b>\$1,471,860</b>

## University of Toronto

DNA Nanomaterials for Connective Tissue Diseases	\$159,730
Picture This: A Multi-organ Imaging Bank for Childhood Disability-specific Protocols and Outcomes	\$237,396
Frailty, Sarcopenia, Exercise, and Prevention of Dementia at the Kimel Centre for Brain Health	\$100,000
Fabrication and Characterization of Soft Conductive Materials for Sensing, Actuation and Energy Storage	\$125,000

**... / University of Toronto**

FLASH Irradiator	\$396,428
Learning with Discrete Structure	\$160,000
Optimizing Balance Training for Fall Prevention	\$75,100
Investigating Altered Neurochemistry and Cellular Pathology in Aging and Dementia: From Animal Models to Humans	\$219,696
Chemical Genetic Exploitation of the Nematode <i>C. elegans</i> to Develop New Drugs, Nematicides, and Small Molecule Tools	\$277,945
Computational Biomarkers Indicative of Swallowing and Gait Functional Declines	\$150,000
Interdisciplinary Clinical Pharmacology Laboratory	\$199,106
Modeling and Validation of Immunometabolic Atlas Benchmarking Cognitive Impairment and Depression in Multiple Sclerosis	\$629,000
<b>12 projects / projets</b>	<b>\$2,729,401</b>

**University of Waterloo**

Virtual Mobility Lab (VML) for Innovative Transportation Research	\$174,850
An Advanced Evaporator for Dedicated High-quality and High-precision Indium Deposition	\$145,000
Realistic Over-the-air Test System for Researching Wireless and Satellite Communications at up to 44 GHz	\$270,000
An Integrated Digital Platform for Occupant-centric Building Operation	\$160,000
Measurement Systems for Investigating Speech Communication	\$80,000
Experimental Modelling of Aquatic Microbial Hosts and their Viruses	\$100,000
Infrastructure for the Analysis of Multi-phase Flows for Airborne Disease Mitigation and Pollution Control	\$180,000
Laboratory Investigation of Geosynthetics Reinforced Pavement System in Response to Low Temperature and Climate Change	\$90,000
<b>8 projects / projets</b>	<b>\$1,199,850</b>

**University of Western Ontario (The)**

Integrated Molecular and Spatial Profiling for Complex Chronic Diseases	\$531,362
Impact Biomechanics Lab	\$155,884
Movement & Applied Imaging Laboratory	\$213,098
High-performance and Safe Next-generation All-solid-state Na Batteries: Materials and Interfaces	\$346,296
<b>4 projects / projets</b>	<b>\$1,246,640</b>

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## York University

Multifunctional Aerogel Innovation Platform	\$140,000
Building Infrastructure for Quasi-experimental Analysis in Global Legal Epidemiology	\$200,000
Novel Targets of Whole-food Dairy Products for Human Musculoskeletal and Cardiometabolic Health	\$125,000
Research Apiary to Study Honey Bee Behaviour, Genetics and Health	\$212,990
<b>4 projects / projets</b>	<b>\$677,990</b>

### NOTE:

As part of this announcement, an additional \$2,583,412 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 2 583 412 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.

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**Québec / Quebec**

Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 5 148 201 \$ en vue d'appuyer 28 projets d'infrastructure dans la province. / The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$5,148,201 to support 28 infrastructure projects in the province.

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

Big Biomedical Data and Machine Learning to Understand the Human Association Cortex	100 154 \$
Biomaterials and Device Engineering Laboratory	214 908 \$
Exploring Chemical Diversity in Legume Species and Building Biofoundries for High-value Metabolites	380 170 \$
Lyman Laboratory of Insect Diversity and Phylogenomics	309 495 \$
Adaptive and Stable Control of Legged Robotics in Complex Environments	150 000 \$
Urban Boundary-layer Processes and their Links to Sustainability and Resilience	97 200 \$
The Laboratory for Microbial Evolutionary Genomics	205 170 \$
Heterogeneous Integration Lab	115 300 \$
<b>8 projets / projects</b>	<b>1 572 397 \$</b>

**Polytechnique Montréal**

Plasma Reactivity for Novel Cancer Therapies and Sustainability (PEARL)	145 000 \$
<b>1 projet / project</b>	<b>145 000 \$</b>

**Université de Montréal**

Intestinal Microbiota Manipulation used to Improve Public and Animal Health	94 610 \$
Multi-brAin Recording and stiMulatiOn plaTform (MARMOT)	112 377 \$
The Integrative Plant Systematics Laboratory	207 733 \$
Antibody Responses and B Cell Lymphoma Derived from Germinal Centers	159 978 \$
Modeling and Simulation of Neocortical Learning and Mechanisms of Neurodevelopmental Disorders	75 100 \$
Deciphering the Role of Astrocytes in Stress-induced Synaptic Dysfunction	100 000 \$

... / Université de Montréal

High Sensitivity Mass Spectrometry Platform for the Discovery of Tumor-specific Antigens and the Identification of Prote	588 783 \$
Bacterial Cell Shape and Size	120 000 \$
Plateforme d'imagerie multiphotonique en immersion virtuelle pour étude de la microcircuiterie visuelle en action	289 076 \$
<b>9 projets / projects</b>	<b>1 747 657 \$</b>

Université de Sherbrooke

Infrastructure for the Development of Electrochemical Biosensors	130 000 \$
<b>1 projet / project</b>	<b>130 000 \$</b>

Université du Québec à Montréal

Le P'tit Labo	214 686 \$
Infrastructure to Investigate Plant Resilience to Environmental Stress using Functional Genomics and Structural Biology	345 310 \$
<b>2 projets / projects</b>	<b>559 996 \$</b>

Université Laval

Role of Platelets and Extracellular Vesicles in Inflammation	136 800 \$
Plateforme de mesure et d'analyse des conditions environnementales et des émissions atmosphériques en milieu d'élevage	86 460 \$
Investigation of the Epigenetic and Transcriptional Mechanisms Underlying Microglia Cell Functions in the Brain	129 249 \$
Microcircuiterie et neuroplasticité adaptative des ganglions de la base dans la maladie de Parkinson	114 535 \$
La conception de nouveaux agents thérapeutiques et la résonance magnétique nucléaire	202 612 \$
Advanced Inclusions Microthermometry (AIM) Platform	125 004 \$
Co-DOT 4.0	198 491 \$
<b>7 projets / projects</b>	<b>993 151 \$</b>

**À NOTER :** Cette annonce comprend l'attribution d'une somme additionnelle de 1 544 460 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.

**NOTE:** As part of this announcement, an additional \$1,544,460 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.

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**Saskatchewan**

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$293,176 to support 2 infrastructure projects. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 293 176 \$ en vue d'appuyer 2 projets d'infrastructure.

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

Cold-region Water Resource Recovery Laboratory	\$168,176
<b>1 project / projet</b>	<b>\$168,176</b>

**University of Saskatchewan**

Green SkEye: Greenhouse Imaging and Analytics for Omics Innovation in Agriculture	\$125,000
<b>1 project / projet</b>	<b>\$125,000</b>

**NOTE:**

As part of this announcement, an additional \$87,953 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 87 953 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.