

Fonds des leaders John-R.-Evans Fiche d'information

Ontario

Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 24 739 317 \$ en vue d'appuyer 122 projets d'infrastructure dans la province.

Titre du projet	Contribution maximale de la FCI
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Carleton University

A Power Hardware-in-the-Loop Electric Machine Emulation Laboratory for Electric Vehicle Application	94 675 \$
Development of Digital Technologies and XR Applications to Support Person-Centred Care	80 650 \$
Quantifying the Impact of Occupant Behaviours on Residential Indoor Environmental Quality During Extreme Climate Events	82 170 \$
Infrastructure for Multimodal Instrumentation in Image-Guided Robotic Surgery	332 600 \$
The Carleton Computational Cluster for Sensitive Data (3C-SD)	448 000 \$
Scalable and Sample-Efficient Multi-Agent Reinforcement Learning	150 000 \$
Fabrication of Architected Synthetic Fibre Muscles for Implantable Devices	120 615 \$
7 projets	1 308 710 \$

Lakehead University

Securing Critical Infrastructure: Cyber-Secure Protection Systems for Next-Generation Power Grids	121 543 \$
Integrated Low-Dropout Regulator Architectures for System-on-Chips: Enabling Energy-Efficient Power Management	88 691 \$
2 projets	210 234 \$

Université Laurentienne

Smart and Sustainable Mining Infrastructure: Sensor-integrated IoT and AI Systems	119 758 \$
1 projet	119 758 \$

McMaster University

Advancing Solar Reforming for Sustainable Fuels and Circular Chemistry	150 000 \$
Hydraulic Flume Lab for the Investigation of Riverine Processes	109 464 \$

Research on Artificial Persons Laboratory	134 769 \$
Evaluating the Functional Role of Vascular Endothelial Cells in Mucosal Inflammation in Vivo with Spectroscopic OCT	150 000 \$
Advancing Canada's Sustainable Built Environment: Pathways with low-carbon and ultra-high-performance concretes	252 500 \$
Laboratory for Nanoscale Ferroelectric Dynamics and Neuromorphic Devices	332 000 \$
Bioenergetics Platform for Investigating Neuromuscular Biology in Health and Disease	80 000 \$
Building Canadian Capacity to Use Firm/Workplace Microdata to Inform Policy	320 000 \$
Multi-modal Imaging Plate Reader for Automating Aquatic Toxicology Research	126 453 \$
9 projets	1 655 186 \$

Nipissing University

Pursuing Excellence in Environmental Change Research at Nipissing University through Science Infrastructure Renewal	400 000 \$
1 projet	400 000 \$

Queen's University

Biomedical Solutions to Monitor and Predict Cognitive Decline	125 000 \$
Buried Infrastructure Response Measurement through High-definition Sensing	90 000 \$
Flow and Wake Interactions in Next-generation Renewable Energy Systems	125 000 \$
The Indigenous Hockey Research Network StoryLab: Where sport and story serve social change	138 000 \$
Optic Neuropathy Pathophysiology and Translational Clinical (OPTIC) Project	80 000 \$
Threshold-oriented Absolute Environmental Sustainability Assessment for Safeguarding Canada's Critical Minerals Supply	111 000 \$
INSIGHT: Integrated Digital Twin Infrastructure for System-Level Hospital Analytics and Transformation	148 000 \$
Toward Secure and Privacy Preserving Collaborative Intelligence for Space–Air–Ground Integrated Networks	120 000 \$
8 projets	937 000 \$

Toronto Metropolitan University

Real-Time AI for Compassionate Care	77 429 \$
Monitoring the Response of Terrestrial Photosynthesis to Climate Change through Remote Sensing of Plant Physiology	81 000 \$
Building Brain-Based Insights into Early Math Learning: A Portable fNIRS Approach	86 000 \$
Embodied Artificial Intelligence for Decentralized Guidance, Navigation, and Control of Collaborative Space Manipulators	76 000 \$
4 projets	320 429 \$

Trent University

Spotlight: An Ultrafast Beamline for Molecular Dynamics and Materials Imaging	180 000 \$
Global Contaminant Legacies and Emerging Threats: Building Transdisciplinary Pathways for Environmental Forensics	303 477 \$
Communication Across the Lifespan: Age Differences, AI Interactions, and Clinical Interventions	160 000 \$
3 projets	643 477 \$

University of Guelph

High-dimensional Immune Profiling to Decipher Microbial Modulation of Host Responses	100 000 \$
Laboratory for Fundamental and Applied Studies of Bacterial Cell Wall Biology	80 532 \$
Structure-Guided Optimization of Chemically Modified Oligonucleotides for Biomedical Applications	125 000 \$
3 projets	305 532 \$

University of Ontario Institute of Technology

Large Language Model Computational Research Infrastructure	55 716 \$
1 projet	55 716 \$

Université d'Ottawa

Epitaxial Magnetic Quantum Interfaces	216 253 \$
Organic Neuromorphic AI Accelerator	297 513 \$
Patient-centred Pain Control – Using Scrambler Therapy to Treat Chronic Nerve Pain	99 879 \$
Infrastructure numérique de données de recherche dans la compréhension et la prévention du geste suicidaire	110 041 \$
The Genetic Basis and Architecture of Adaptation to Contemporary Environmental Change	97 800 \$
Phononic Gaps in Next Generation Heat Insulating Technology	327 562 \$
Seeing Beneath Volcanoes: A Quantitative Spectroscopic Facility for Constraining Volatile-rich Magma Plumbing Systems	220 000 \$
Earth System Evolution and Critical Mineral Formation during the Orosirian Period	225 394 \$
8 projets	1 594 442 \$

University of Toronto

Dissecting the Tumour Microenvironment Ecosystem to Overcome Treatment Resistance in Lymphoma	257 790 \$
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Exploring the Multifactorial Development of Cardiovascular Disease	798 992 \$
CERC-IDI: Canada Excellence Research Chair in Intelligent Digital Infrastructures	400 000 \$
The ChemMicroEco Lab: Understanding and Engineering Microbiomes through Chemistry	225 000 \$
Climate, Water and the Built Environment in the Lake Ontario-Saint Lawrence River-Gulf of Saint Lawrence System	100 000 \$
Deciphering the Molecular and Cellular Mechanisms of Treatment Resistance in Gastric Cancer	273 710 \$
Mapping Kidney Cancer Immune Evasion Genes for Next-generation Immunotherapy	332 635 \$
Identification and Validation of Biomarkers for Multiple Sclerosis Through Next-generation Genomic Analysis	800 000 \$
Global Surgical Artificial Intelligence Collaborative	378 905 \$
Advancing Youth Mental Health Research with Digital Phenotyping Infrastructure	184 591 \$
A Super-resolution Imaging Platform for the Elucidation of In Vivo Disease Mechanisms	763 454 \$
STING-seq and Beyond: Infrastructure for Functional Dissection of Noncoding Genetic Variation	300 000 \$
High Resolution Exploration of Meningioma Biology and Therapeutic Vulnerabilities	186 201 \$
Expanding Access to Heart Transplantation in Canada Through Innovation in DCD Graft Preservation and Repair	341 088 \$
Development of Renewable Freezing Technologies for Sustainable Mining in Cold Regions	100 000 \$
Advanced Battery Laboratory (ABL): Accelerating Innovation in Electrochemical Energy Technologies	150 000 \$
Validating a New Way to Breathe: Do smart ventilators help patients?	756 000 \$
Automated Discovery of Therapeutic Peptides using an AI-guided Self-driving Laboratory Platform	250 000 \$
Innovative Antibodies Targeting Post-translational Modifications for Research Tools and Cancer Therapy	441 724 \$
A Machine Learning and Parallel Synthesis-enabled Platform for Therapeutic Discovery	796 271 \$
Matrix Protein Mapping to Create Regenerative Oral Tissue Biomaterials	318 713 \$
META-LGBTIQ Multimedia Inclusion Lab: Indicator Development, Tracking System, and Digital Media Repository (MFARR-Asia)	100 819 \$
Assessing Ecosystem Interdependencies under Global Change	76 000 \$
Mechanisms Controlling Early Pollen Development and their Misregulation Under Heat Stress	280 000 \$
Echo Lab: Preserving the Performance of Legacy Computing	150 000 \$

Mechanisms Regulating the Stem Cell Niche in Tissue Regeneration and Aging at Single Cell and Spatial Resolution	225 000 \$
High Resolution Microscopy in Neurobiology: Organellar Dynamics through to Behaviour	781 724 \$
Personalized Neuroscience for Multimodal, Scalable, Community-based Dementia Assessment, Early Detection, and Prevention	284 000 \$
A Multi-scale Mechanical Testing Suite for Integrative Musculoskeletal Injury Research	340 000 \$
Electroactive Molecules for Electrochemistry-driven Small Molecule Upgrading and Carbon Capture	150 000 \$
Laboratory for Bioinspired Robotics and Locomotion	150 000 \$
Decoding Blood Stem Cell Inflammation Across the Human Lifespan	240 326 \$
Decoding Genetic and Transcriptomic Instability in Cancer using In Vivo Functional Genomics	300 000 \$
Towards the LLM Causal Scientist for Scientific Causal Inference	200 000 \$
34 projets	11 432 943 \$

University of Waterloo

Advanced Material and Manufacturing Process Development through High Resolution Nano Indentation Measurements	113 500 \$
Enabling Non-experts: AI-guided Fabrication for Assistive Technology	88 000 \$
Universal Liquid Surface Characterization Platform for Assessing Multi-material Biointerfaces	136 500 \$
Technologies for Shared Understanding in Hybrid Startup Teams	100 000 \$
Advanced MicroCT for 3D Microstructural Mechanical Assessments	100 000 \$
Ultrashort Pulsed Laser Writing of Multi Materials Thin Film Flexible Devices	105 000 \$
Nanoscale 3D Printer for Two-photon Polymerization	411 000 \$
Additive Manufacturing of Porous Materials for Electrochemical Devices	80 000 \$
Advancing Legged Robot Perception for Real-world Conditions	120 000 \$
Enhancing Pilot Training through Psychophysiological Data	76 194 \$
GPU Accelerated Simulation Tools: From High-fidelity Numerical Methods to Robust Machine Learning	117 000 \$
The Ripple Effect: Valuing Rivers through Bike-powered Community Science	65 000 \$
Infrastructure for Data Intelligence	100 000 \$
Future Cities Institute Research Infrastructure: Living Labs and CivicInquire Policy Platform	65 500 \$
Multimodal Imaging System to Investigate mRNA Processing Dysfunction in Cell Identity Determination	115 000 \$

Infrastructure for Advanced Respiratory Muscle Mechanics Research	100 000 \$
Novel Electrochemical Storage Electrodes with Low Heat Generation Characteristics for Fast Charging Applications	80 000 \$
Developing Tools for Studying the Essential Enzymes that Synthesize, Degrade, and Tailor the Bacterial Cell Wall	125 000 \$
GPU-powered Physics-informed ML for Next-generation Electrochemical Interface Design	125 000 \$
A Cryogenic Flow Visualization Infrastructure for Hydrogen Explosion Safety Research at Low-temperatures	140 000 \$
Atomic force microscopy in inert atmosphere for air-sensitive solid-state battery materials	140 000 \$
Advancing thermochemical recycling for plastics circularity under real-world conditions	124 788 \$
22 projets	2 627 482 \$

University of Western Ontario (The)

E4 Lab: Kahionhaktà:tye	141 161 \$
Rock Mechanics for Climate Change Mitigation and Resilience	160 841 \$
High-throughput, 4D Imaging of Human Organoid Models to Uncover Novel Mechanisms of Organ Development and Disorders	322 484 \$
Infrastructure for Microbial Synthetic Biology and Biomanufacturing	200 000 \$
Infrastructure for Spine Mechanics Research and Injury Prevention	228 158 \$
Infrastructure to Enable the Development of Functional and Degradable Polymer Systems	103 967 \$
129Xe Magnetic Resonance Imaging to Detect and Quantify the Reversal of Abnormal Remodeling in Airways Disease	281 992 \$
Dynamic Cerebral Hemodynamics and Functional Aging: Portable Monitoring for Precision Interventions	81 000 \$
8 projets	1 519 603 \$

University of Windsor

Southwestern Institute for Forensic Taphonomy (SWIFT)	148 766 \$
1 projet	148 766 \$

Wilfrid Laurier University

Advancing Understanding of Early Cardiovascular Risk Factors: A Cells-to-systems Approach	91 000 \$
Scanning Electrochemical Microscopy for the Kinetic Analysis of Materials Interfaces	86 000 \$



Canada Foundation for Innovation Fondation canadienne pour l'innovation

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IntegCore: An Integrated Computational and Experimental Platform for Advanced Biomolecular Research and Discovery	152 000 \$
High-density Multi-well Microelectrode Arrays with Closed-loop Feedback for Intelligent Biocomputing	76 000 \$
Understanding Change in Northern Fishes, Fisheries, and Aquatic Ecosystems	325 038 \$
5 projets	730 038 \$

York University

Regulation and Function of FAM72A in B Cell Immunity and Cancer	100 000 \$
Single Particle Characterization System to Study Transformations of Atmospheric Particles over a Broad Size Range	100 000 \$
Zebrafish Centre for Integrative Research in Endocrinology, Neurophysiology, and Environmental Sciences	235 000 \$
Centre for Sustainable and Environmental Chemistry	210 000 \$
Enhancement of the Behaviour-Centric Cybersecurity Center (BCCC) for Advancing AI-powered Threat Detection and Awareness	75 001 \$
5 projets	720 001 \$

À NOTER :

Cette annonce comprend l'attribution d'une somme additionnelle de 7,418,795 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.