

John R. Evans Leaders Fund Backgrounder

Quebec

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$15,460,631 to support 75 infrastructure projects in the province.

Project Title	Maximum CFI Contribution
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HEC Montréal

MID - Music Intelligence Database	\$103,410
1 project	\$103,410

McGill University

Uncertainty Quantification and Reduction via Expert Knowledge Integration in AI-based Clinical Decision Support Tools	\$80,315
Innovative Nutrition and Lifestyle Interventions for Health Improvement and Management of Diabetes, Aging and Cancer	\$447,848
The Marmoset as a Preclinical Model for Studying Sensory and Social Mechanisms Linked to Autism Spectral Disorders	\$95,528
Understanding Cellular Dynamics of Skin Health and Disease	\$160,000
Precise, Comprehensive and Practical Musculoskeletal Measurements to Prevent Age-, Sex- and Disease-specific Bone Loss	\$162,342
Laboratory for Soil and Water Resource Protection	\$499,724
Investigation of the Survival and Transmission of Emerging Zoonotic Human Pathogens using Super-resolution Microscopy	\$553,482
Understanding T Cell Development and Function to Improve the Efficacy of Cancer Immunotherapies	\$276,393
Extreme Temperature Carbothermal Manufacturing of Sustainable Graphitic Carbon Materials	\$374,138
Brain and Metabolism Initiative	\$799,999
Ex Vivo Assessment of the Aging Brain and its Disorders	\$97,776
Long Term Effects of Mild-traumatic Brain Injury	\$187,486
* TRANSFORM: Engaging with Young People for Social Change	\$95,879
Timeseries Anomaly Detection	\$140,459
Microvascular and Endothelial Health in Hypertensive Disorders of Pregnancy	\$294,252
Bio-inspired Supramolecular Microreactors for Synthetic Chemistry	\$280,934
Architectures that Mediate Bacteria-host Interactions: Towards an Anti-adhesion Strategy to Treat Microbial Infections	\$150,000
Integrated Microbial Culture Facility for Near-realtime Evolutionary Analysis	\$435,381

Distributed Neural Representations for Efficient Learning and Inference	\$273,722
Microwave Sensing for Accessible, Personalized Health Screening and Monitoring	\$100,000
20 projects	\$5,505,658

* Funding for Research Infrastructure Associated with SSHRC Research Support

Polytechnique Montréal

Multifrequency Ultrasound Platform for the Process Intensification of the Chemical Industry	149 999 \$
Système d'analyse ampérométrique pour la nanochimie et la neurochimie	91 393 \$
AROGULA: A Random Optical Grating fabrication system using UV of FS Lasers	149 998 \$
3 projets	391,390 \$

Université de Montréal

Studying the Interplay of Cellular Mechanisms Underlying Retina Pathologies	\$246,314
Molecular Events Controlling CD8+ T Cell Response to Infection and Cancer	\$514,760
Eco-Evo-Patho of Microbes in Nature	\$200,001
Monitoring cérébral pour comprendre les mécanismes physiologiques du délirium et rehausser sa détection en cardiologie	\$100,344
Targeting Tumor Metabolism to Improve Cancer Therapy with Oncolytic Viruses	\$100,000
The Study of Islet Vascular Niche in Healthy and Pathogenic Beta Cell Development, and Developing Therapies for Diabetes	\$165,820
A Robotic Neurophysiology Platform for the Study of Sensorimotor Control in Ethologically-relevant Behaviors	\$120,000
The Effect of Fibroblasts on Dysplastic Stem Cell Fate in Pancreatic Tumors	\$162,722
* LAVIA: un laboratoire vivant sur l'innovation et l'apprentissage en enseignement supérieur	\$591,086
* Revue3.0 : Écrire, Transmettre, Découvrir	\$223,270
** Light-Matter Interactions in Photonic Materials	\$514,945
NEUROsciences and Cortical ORganoid (NEUROCOR) Lab	\$250,000
CELLENGINE: A Scalable Genome Engineering Platform to Understand Biological Complexity and Disease	\$360,153
Cardiometabolic Health in At-risk Pediatric Populations	\$180,000
14 projects	\$3,729,415

* Funding for Research Infrastructure Associated with SSHRC Research Support

** Funding for Research Infrastructure Associated with CERC Research Support

Université de Sherbrooke

Structural Investigation of Membrane Proteins from an Atomic to a Molecular Complex Perspectives	\$336,448
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INNOVATION

Canada Foundation for Innovation Fondation canadienne pour l'innovation

Laboratoire - Environnements Arctiques et Pergélisol (LEAP)	\$166,413
Brain Stimulation Platform of Université de Sherbrooke	\$177,050
STEMUS: Stem Cell and Tissue-engineering Platform for Understanding Brain Development and Aging	\$380,192
Infrastructure pour le développement d'un ciment micro-ondes sans émission CO2 dans l'atmosphère	\$121,551
*** Machines de caractérisation mécanique multi-axes	\$90,000
6 projects	\$1,271,654

*** Funding for Research Infrastructure Associated with NSERC Research Support

Université du Québec - École de technologie supérieure

Cutting-edge Technology for Non-invasive Characterisation of Aquifers and Assessment of Climate Change Impacts on Ground	\$164,888
Biomaterials and Biofabrication Laboratory	\$100,000
Infrastructure pour le développement d'enceintes de production végétale intérieure à haute efficacité énergétique	\$160,000
Digital Twin for Efficient Management of Integrated Terrestrial and Non-Terrestrial Networks	\$99,998
Contrôle de la Pollution Atmosphérique : Applications aux Procédés de Recyclage, de Traitement et aux Matériaux	\$100,000
5 projects	\$624,886

Université du Québec – Institut national de la recherche scientifique

Ultrafast Quantum Imaging	\$150,000
Unraveling Myeloid Cell Diversity in Difficult-to-treat Cancers for Rational Therapeutic Targeting	\$299,712
2 projects	\$449,712

Université du Québec à Chicoutimi

Optimisation énergétique et réduction de l'empreinte environnementale des procédés et systèmes	\$100,000
Plateforme de génomique pour le suivi des environnements aquatiques	\$100,000
2 projects	\$200,000

Université du Québec à Montréal

The Creation of the Canadian Bariatric Behavioural Intervention Research Platform	\$150,000
Microbial-mediated and Abiotic Contaminant Transformations in Aquifer Ecosystems	\$303,584
Laboratoire 1P1. Laboratoire d'expérimentation en réalité étendue	\$221,283
EnJeuLab - Infrastructure de recherche sur la pratique et l'évaluation de l'activité physique chez les jeunes	\$350,000

4 projects	\$1,024,867
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Université du Québec à Rimouski

Laboratory for Acoustics and Vibration Analysis (LAVA): Eco-Friendly and Silent Ship Design	\$139,694
1 project	\$139,694

Université du Québec à Trois-Rivières

Confocal Microscopy Platform	\$298,363
1 project	\$298,363

Université Laval

Création d'une plateforme pilote de production fromagère	\$78,120
A Neuro-computational Approach to Understand and Quantify Pain Perception	\$120,529
Real-time Imaging of Reactive Oxygen Species (ROS) in Fresh Horticultural Produce	\$91,749
Infrastructure pour la caractérisation des propriétés hydromécaniques des sols marginalement gelés	\$124,850
Étude des problématiques associées à la sous-DÉCLARATION d'Es événements indésirables (DECLARE)	\$119,204
Comprehensive Utilization of Natural Resources for Critical Metal Recovery and CO2 Mineralization	\$122,898
Conception et performance des infrastructures de transport en région froide	\$115,237
Neurobiology of Opioid Abuse	\$120,000
Plateforme d'analyses en santé des sols	\$83,341
Laboratoire de télédétection appliquée à l'adaptation de la sylviculture au changement climatique	\$91,791
Determining how Microbes and Nutrients Modify Gut Health and Metabolic Homeostasis	\$120,000
Innovations in Wheelchair Mobility Evaluation and Training Traversing Virtual Reality to the Real World	\$120,000
Infrastructure de recherche sur les panneaux composites à base de bois de nouvelle génération	\$113,820
Plateforme d'imagerie hyperspectrale IR pour la numérisation sensorielle et le contrôle de la qualité des aliments	\$99,978
Recherche clinique sur l'endométriose et les facteurs affectant la qualité de vie des individus atteints	\$120,000
Impact of Interventions Targeting Cardiometabolic Health on the Brain	\$80,065
16 projects	\$1,721,582

INNOVATION

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NOTE: As part of this announcement, an additional \$4,638,189 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.