

**Regional Backgrounder / fiche d'information par région
New Opportunities Fund / Fonds de relève**

Province : Quebec / Québec

The following 37 projects were approved in the province of Quebec totalling \$7,445,234. / Les 37 projets suivants ont été approuvés dans la province du Québec totalisant 7 445 234 \$.

Project Title / Titre du projet	Maximum CFI Contribution / Contribution maximale de la CFI
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Concordia University

A Distributed Computing Environment for Real-time Simulation of Mechanical Systems: Aerospace and Automotive Applications	\$58,000
Infrastructure to Study Novel Cooling Schemes for "Next Generation" Aircraft Engines; and to Develop Micro-Scale Power Devices	\$172,000
Regulation of blood flow and oxygen transport during exercise, and vascular remodeling with training	\$379,335
Laboratory for the Physics of Advanced Materials	\$214,800
Revealing the physiology and cognition of affective development: Integrated studies of adaptive emotional processes in children	\$101,117
5 projects / projets	\$925,252

École polytechnique de Montréal

Plate-forme de développement d'algorithmes parallèles pour la modélisation et l'optimisation de systèmes complexes d'ingénierie et de systèmes multi-agents de production industrielle"	\$1,159,932
1 project / projet	\$1,159,932

McGill University

Establishment of a molecular chronobiology unit for the study of biological clocks in mouse models and human disorders	\$151,850
Advanced Seismic Interpretation Laboratory	\$203,904
Identification of Human Immunodeficiency Virus-Host Interactions Using Bioluminescence Resonance Energy Transfer (BRET) Analysis: Basis for the Development of Novel Anti-Retroviral Compounds	\$62,807
Research Facility for the Study of Enzyme Mechanism and Stereoselectivity	\$200,000
Neuroimmunology and experimental therapeutics in CNS inflammatory disease	\$103,067
Integrated two-photon/confocal microscope and image correlation spectroscopy system for studies of the assembly and disassembly of macromolecular adhesion complexes in living cells	\$200,000
Computer Vision, Medical Imaging and Perceptual Modeling Lab	\$176,000
Infrastructure for the development of micro and nano scale hydrogel platforms as controlled release system of growth factor for in vitro bone engineering	\$199,774
Infrastructure for Distributed Information Systems, Data Mining and Bioinformatics	\$196,884
Equipments for Conceptual Design, Development and Evaluation of Interventional Cardiovascular Devices	\$81,560
10 projects / projets	\$1,575,846

Université de Montréal

Set up of a laboratory for pharmacogenetics development	\$209,893
Gene-environment interactions in obesity-associated hypertension	\$190,166
Mécanismes cellulaires des interactions virus-hôtes	\$167,973
Laboratory for the functional analysis of tissue regeneration using the axolotl as a vertebrate model	\$210,751
Regulation of G protein-coupled receptor function by small GTP-binding proteins	\$169,549
Laboratoire vétérinaire d'étude comparée de guérison tissulaire (Comparative Veterinary Tissue Healing Laboratory)	\$197,804
Assessing chemical speciation and bioavailability in contaminated soils	\$219,860

7 projects / projets	\$1,365,996
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Université de Sherbrooke

Roles of KH domain proteins in <i>Drosophila</i> germline development. Le rôle des protéines KH dans la gamétogenèse de la mouche à fruit.	\$149,453
Infrastructure de prototypage pour la fabrication de composants micro/opto-électroniques, et la caractérisation de composants photoniques	\$214,016
La sarcopénie: une problématique complexe et pluri-causale	\$56,318
Métabolisme postprandial des lipides dans le diabète	\$120,921
4 projects / projets	\$540,708

Université du QC École de technologie supérieure

Laboratoire d'intégration des technologies de production (LITP)	\$78,250
1 project / projet	\$78,250

Université du Québec à Chicoutimi

Acquisition d'une infrastructure performante pour l'analyse, l'isolation et l'identification structurale de composés organiques	\$298,824
1 project / projet	\$298,824

Université du Québec à Montréal

Développement, déploiement et évaluation de systèmes de grande envergure	\$100,921
1 project / projet	\$100,921

Université du Québec à Rimouski

Laboratoire de recherche en biologie évolutive des vertébrés inférieurs	\$284,145
1 project / projet	\$284,145

Université Laval

Compréhension des mécanismes menant à une cicatrisation vicieuse des plaies cutanées	\$188,470
Installation d'un laboratoire de génétique et de protéique fonctionnelle des cellules souches hématopoïétiques	\$179,214
Imagerie de la régénération nerveuse d'une peau reconstruite par génie tissulaire	\$103,843
Serial Analysis of Gene Expression (SAGE) Facility	\$209,333
Facility for the study of protein structures and dynamics by nuclear magnetic resonance	\$186,438
New laboratory with leading-edge technology to simultaneously visualize and monitor the activity of single 'alive' neurons using a unique confocal calcium imaging/electrophysiology system	\$248,062
6 projects / projets	\$1,115,360