

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

Province : Ontario

The following 47 projects, totalling \$6,217,900, were approved in the province of Ontario. / Les 47 projets suivants ont été approuvés dans la province de l'Ontario totallisant 6 217 900 \$.

Project Title / Titre du projet	Maximum CFI Contribution / Contribution maximale de la FCI
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Laurentian University / Université Laurentienne

Characterization of Novel Synthetic Polyelectrolytes as Coagulants and Flocculants using Aqueous Gel Permeation Chromatography	\$56,920
Autogenous Grinding Lab	\$62,112
Ultralow Background Counter Development Facility	\$42,306
3 projects / projets	\$161,338

McMaster University

Advanced Soil Testing System for Verification and Validation of Constitutive Models for Geomaterials	\$80,000
Dendritic Cell Vaccines: Harnessing the Immune System to Fight Cancers	\$155,787
Electrochemical Science and Engineering Center	\$100,000
Engineering Better Biopharmaceuticals: Creation of a Bioprocessing Research Laboratory with Protein Expression, Purification and Characterization Capabilities	\$100,000
Parallel Computing Facility for the Study of Strongly Correlated Materials	\$105,000
The Development of Silicon-based Highly Integrated Optical Components Suitable for Volume Manufacture	\$118,849
Thermal Processing Research Facility	\$120,000
7 projects / projets	\$779,636

Queen's University

Facility to Prototype Designer Crystalline Materials with Preferred Shape and Orientation	\$109,000
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Fatigue Testing of Innovative Engineering Materials for Long-Lasting Civil Infrastructure	\$96,816
2 projects / projets	\$205,816

Royal Military College of Canada / Collège militaire royal du Canada

Autonomous Vehicular Navigation Laboratory	\$107,560
1 project / projet	\$107,560

University of Guelph

Characterizing and modeling mercury emissions from background soils	\$88,956
Development of a Plant Gene Expression Laboratory and Nascent Plant Architecture Informatics Facility	\$124,416
Digital Media Studio—DMS	\$103,201
Infrastructure for Population Genetics and Molecular Epidemiology of Veterinary and Zoonotic Pathogens	\$124,802
QoS IP Traffic Management over Optical Fibre	\$71,657
5 projects / projets	\$513,032

University of Ottawa / Université d'Ottawa

Bioinformatics analysis of genomic heterogeneous high-throughput data	\$200,000
Brain Dysfunction and Obesity	\$200,000
Elucidation of the key regulatory networks & signaling pathways associated with the development & function of mouse photoreceptors – applications to disease & therapy	\$200,000
Intelligent Data Warehouse Laboratory	\$319,537
Pressurized Multiphase Reactor Laboratory	\$244,900
5 projects / projets	\$1,164,437

University of Toronto

Bringing Research Apprenticeship Online: Reconceptualizing Graduate Distance Education	\$104,535
Cell Biology of Macrophages	\$71,489
Characterization of the Vibrio vulnificus Super-integron: Its Role in the Emergence of a Human Pathogen	\$81,551
Clinically-based observation laboratory for the study of assessment and intervention with abusive, neglectful and at-risk fathers	\$102,250
Establishing a Geological Fluid Dynamics Laboratory	\$130,000

Facility for the integrative study of plant evolutionary physiology	\$200,000
Mobile platform for full-scale in-situ testing and monitoring of structures	\$398,056
Novel Applications of Myocardial Contrast Echocardiography using Targeted Microbubbles for Therapeutic Angiogenesis	\$29,374
Regulation of Syk Activity During Inflammation	\$94,771
9 projects / projets	\$1,212,026

University of Waterloo

A Facility for the Development of Novel Nanostructured Materials for Electrochemical Applications	\$152,288
Confocal Scanning Laser Microscope for Research in Vision Science and Biology	\$303,291
Differential in-gel electrophoresis system for proteome analysis	\$118,000
3 projects / projets	\$573,579

University of Western Ontario

A novel facility for resolving blood flow shear forces in arteries and their effect on artery wall cell adhesion	\$116,762
Abnormal weight-bearing arthrokinematics and osteoarthritis	\$206,058
Cathodoluminescence Spectroscopy, Sample Separation and Analysis Facility	\$137,815
Equipment for Dynamic Characterization of MEMS-based Inertial Sensors and RF components	\$185,746
Molecular Analysis of Novel Mechanisms Regulating Genome Stability and Gene Expression	\$138,999
Research Facility for Flexible AC Transmission Systems (FACTS)	\$139,664
6 projects / projets	\$925,044

University of Windsor

A Research Facility for Pattern Recognition and Data Compression with applications to Bioinformatics, Microarray Data Analysis, Data Storage, Classification and Computer Graphics	\$48,685
An integrated field and laboratory facility for underwater acoustic sampling and analysis	\$49,980

Developing an Integrated Facility for the Study of Spatiotemporal Dynamics in Chemical and Biochemical Systems	\$49,600
Instrumentation for an Environmental Engineering and Biotechnology Laboratory	\$99,609
4 projects / projets	\$247,874

York University

A Space Instrument Test Laboratory	\$244,699
Embodied attention laboratory: Exploring the role of the body in attention and perception	\$82,859
2 projects / projets	\$327,558