

## Ontario Research Fund Infrastructure Program

This report summarizes all research infrastructure proposals approved and announced by the Ministry to date, except those that have been declined by the recipient. The information provided below is subject to change. While the Ministry strives for accuracy, discrepancies are possible. Please advise the Ministry of any questions. Descriptions of program types are provided at the end of this report.

## Fonds pour la recherche en Ontario Programme d'infrastructure de recherche

Ce rapport résume toutes les propositions d'infrastructure de recherche approuvées et annoncées par le ministère jusqu'à présent, hormis celles qui ont fait l'objet d'un rejet. Les renseignements fournis ci-dessous sont sujets à changement. Si le ministère fait tout son possible pour veiller à l'exactitude de ces renseignements, des erreurs risquent de se produire. Veuillez vous adresser au ministère en cas de questions. Les types de programmes sont décrits à la fin du rapport.

<i>Institution / Établissement</i>		<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>		
<b>Algoma University</b>		<b>Total: 2</b>	<b>\$668,637</b>	<b>\$225,000</b>
CRCIF	Molecular Ecology of Insects and their Viral Pathogens	02/24/2005	\$317,775	\$125,000
LOF-1	Infrastructure Grant for Walk – In Growth Chambers	05/10/2010	\$350,862	\$100,000
<b>Brock University</b>		<b>Total: 26</b>	<b>\$16,818,885</b>	<b>\$3,313,860</b>
CRCIF	The TOPSPACE Lab: A centre for Innovation and Application of 3D Media in the Humanities and Social Sciences	07/22/2005	\$288,817	\$115,576
CRCIF	Digital Humanities: Infrastructure for Advanced Pedagogy and "Serious Gaming"	10/24/2005	\$93,675	\$32,095
IF	Lifespan Development Research Centre	12/16/2004	\$6,513,952	\$809,160
IF	Integrated Tools for Biotechnology: Genomic, Proteomic, Metabolomic, Spectroscopic, and Computational Approaches	12/16/2004	\$5,372,094	\$626,086
LOF	Integrated Tools for DNA, RNA and Bioconjugate Synthesis	08/31/2006	\$193,273	\$77,309
LOF	Excavation of a Mycenaean cemetery at Ayia Sotira, Koutsomadi, deme of Nemea, Korinthia	12/21/2006	\$22,323	\$8,929
LOF-1	Facilities for organometallic and catalytic research	05/15/2007	\$146,496	\$58,592
LOF-1	The Cool Climate Oenology and Viticulture Institute's Consumer Behavioural Research Laboratory	06/26/2007	\$172,302	\$68,920
LOF-1	A neurophysiological investigation of language processing	09/04/2007	\$212,332	\$83,875
LOF-1	The Simulating History Research Lab	04/22/2008	\$116,616	\$46,646
LOF-1	Excavation of an Iron Age Shipwreck at Kekova Adasi, Turkey	04/22/2008	\$96,168	\$34,867
LOF-1	Facility for Small Molecule Analysis and Quantification	08/11/2008	\$233,315	\$85,972
LOF-1	Infrastructure for the synthesis and study of new molecule-based materials	11/07/2008	\$64,389	\$25,541
LOF-1	Establishment of the Balance and Gait Laboratory to investigate the neural mechanisms underlying posture and locomotion	03/19/2010	\$386,778	\$148,790

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<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
LOF-1	The Development of Face Perception		\$470,023	\$170,790
LOF-1	An electrophysiological approach to the developmental trajectories of working memory functions		\$314,043	\$125,617
LOF-1	The Physical Property Measurement System (PPMS) for research on electronic and magnetic properties of materials and thin films of compounds.		\$614,625	\$245,850
LOF-1	Neurovisceral models of mental health and personality		\$91,020	\$35,965
LOF-2	Thermal Physiology Research Facility		\$208,911	\$82,540
LOF-2	An Integrated Bioinformatics And Genomics Approach for Study Of Transposable Elements And Their Contributions To Genetic And Biological Diversity Using Human And Grapevine As Models		\$80,314	\$31,913
LOF-2	Expansion of a behavioural neuroendocrinology laboratory		\$163,085	\$65,234
LOF-2	Imaging of Bone Structure Using Micro-Computed Tomography		\$287,500	\$115,000
NOF	The Impact of Childhood Obesity on Cardiovascular Health: Arterial Stiffness, Baroreflex Sensitivity and Left Ventricular Structure and Function		\$206,241	\$65,023
NOF	Computational Facility for Asymmetric Catalysis		\$173,924	\$35,000
NOF	Psychological Trait Evolution		\$149,975	\$59,990
NOF	Integrated Tools for the Asymmetric Catalysis Laboratory		\$146,694	\$58,580

### ***Carleton University***

***Total: 44    \$58,726,006    \$13,751,171***

CRCIF	Biomedical and biometric sensors and signal analysis		\$296,791	\$116,438
EOF	CRYOPIT AT SNOLAB		\$14,830,000	\$5,600,000
IF	Carleton University Centre For Advanced Studies In Visualization and Simulation (V-SIM)		\$28,316,360	\$2,311,738
LOF	Fish Ecology and Conservation Physiology Field Laboratory		\$284,131	\$113,653
LOF	Advanced Microscopic and Spectroscopic Facilities to Study Antimicrobial Peptides		\$286,868	\$114,748
LOF	Carleton Facility for the Study of Plant Metabolism and Development		\$616,079	\$244,199
LOF	Laboratory for Aptamer Discovery and Development of Emerging applications Research (LADDER)		\$375,295	\$120,523
LOF	Renewable Bioactives from cereal byproducts and fruit leftovers/wastes		\$373,440	\$148,378
LOF-1	Comprehensive Aerosol Drug Delivery Investigations		\$483,306	\$193,252
LOF-1	Laboratory for flow visualization studies of insect flight aerodynamics and flapping winged locomotion using biorobotic models.		\$291,933	\$116,785
LOF-1	Multi-scale monitoring, manipulation, and modelling of atmospheric carbon exchange in northern environments		\$243,180	\$97,259
LOF-1	Environmental Test Pit for Pilot-Scale testing of mine waste management technologies		\$143,626	\$50,634
LOF-1	Dietary regulation of cognitive function and brain pathology during the lifespan.		\$649,353	\$250,000
LOF-1	Behavioural Acoustic Research Facility		\$213,803	\$85,000

## *Institution / Établissement*

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LOF-1	Positron emission object tracking and dynamic dual-energy x-ray imaging research facility for image-guided radiation therapy and interventional procedures		04/29/2009	\$305,166	\$120,000
LOF-1	Detector Development, Electronics Infrastructure and Test Laboratory for Inner Detector Upgrade for the ATLAS experiment at CERN		04/22/2008	\$302,577	\$115,000
LOF-1	Research and Development of Time Projection Chamber Technology for Neutrino Physics		08/11/2008	\$303,123	\$120,000
LOF-1	Laboratory for Hardware Accelerated Protein Identification for Mass Spectrometry		04/22/2008	\$318,764	\$114,627
LOF-1	Advanced Laboratory for Heterogeneous Communication Networks		04/29/2009	\$434,327	\$150,000
LOF-1	New Approaches to the Use of Sulfur Functionality in Asymmetric Organic Synthesis		08/11/2008	\$309,920	\$120,000
LOF-1	The Antecedents and Consequences of Gambling Pathology		11/07/2008	\$359,171	\$138,374
LOF-1	Micro-cogeneration research facility		04/29/2009	\$207,361	\$75,000
LOF-1	Centre for Cognitive Neuroscience: Language and Brain (CCN.LaB)		04/29/2009	\$344,486	\$137,792
LOF-1	Infrastructure for Impact Performance Evaluation of Advanced Materials		03/19/2010	\$98,154	\$39,250
LOF-1	Establishing a research facility to study cellular responses to neuronal injury and mechanisms to promote functional repair		03/19/2010	\$793,582	\$179,218
LOF-1	Micro/NanoPhotonics Laboratory		05/10/2010	\$290,678	\$112,475
LOF-1	GPS-based spacecraft formation flying testbed		08/04/2010	\$231,104	\$92,400
LOF-1	Mass spectrometric instrumentation to enable novel analyses of polar lipids from complex biological samples		08/04/2010	\$529,541	\$140,000
LOF-1	Solar Energy Systems Laboratory		02/09/2010	\$376,789	\$150,000
LOF-2	Facility to Investigate the Fate of Persistence of Pathogens and Chemicals during Wastewater Treatment Processes, and Implications for Public Health		05/15/2007	\$529,480	\$211,489
LOF-2	Space Robotics Manipulator System		09/04/2007	\$443,630	\$177,427
LOF-2	Stress and well-being		08/11/2008	\$204,087	\$81,634
LOF-2	Neuroinflammatory models of environmental toxin and stressor induced pathology.		04/29/2009	\$255,991	\$100,000
LOF-2	Developing the GRASAC Knowledge Sharing Database: Expanding Capacity for Integrated Indigenous Language Research and Virtual Space Collaborations		05/10/2010	\$200,571	\$26,778
LOF-2	Multi-applications photonic device laboratory		02/09/2010	\$534,934	\$211,414
NOF	Genomics of Neurobiological Disease Laboratory for the Analysis of Stress-Related Pathology		10/24/2005	\$643,711	\$256,215
NOF	Advanced Concepts Operating Room Research Simulator		06/26/2006	\$201,225	\$80,490
NOF	Police Research Laboratory (PRL)		02/24/2005	\$537,235	\$214,212
NOF	Personality and Well-Being: The Carleton University Happiness Laboratory - CUHL		02/24/2005	\$474,067	\$189,647
NOF	Facility for Enzyme Kinetics and Gene Regulation Studies Investigating Sulfur Amino Acid Metabolism		02/24/2005	\$507,361	\$201,778
NOF	Centre for Research in Representational Development (CRRD)		02/24/2005	\$496,159	\$197,928

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<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
NOF	Processes Underlying Criminal Justice Decision-Making		\$433,270	\$173,308
NOF	A Functional Genomics Facility to Study the Process of Translation		\$444,707	\$177,840
NOF	Tunable Diode Laser Spectroscopy for Combustion and Emissions Research		\$210,670	\$84,268
<b><i>Centre for Addiction and Mental Health</i></b>		<b><i>Total: 2</i></b>	<b><i>\$12,517,248</i></b>	<b><i>\$5,006,899</i></b>
LEF	FIRN-II. Enhancing the University of Toronto Imaging Research Network - From discovery through treatment, delivering the promise of molecular imaging and advanced image guided therapy.	03/15/2007	\$5,500,000	\$2,200,000
NIF	Transforming lives: neuroIMAGENE, the convergence of genetics and brain imaging in mental health and addictions	06/28/2009	\$7,017,248	\$2,806,899
<b><i>Lakehead University</i></b>		<b><i>Total: 18</i></b>	<b><i>\$12,187,660</i></b>	<b><i>\$2,763,691</i></b>
CRCIF	Understanding Indigenous Storytelling as Expressions of Identity, Community, Culture, and Pedagogy	06/26/2006	\$232,500	\$93,000
CRCIF	Lakehead University Electrochemistry Laboratory	06/26/2006	\$312,498	\$125,000
IF	Infrastructure for Watershed Integrated Nutrient Study Sites in the Boreal Forest	12/16/2004	\$1,340,752	\$164,991
IF	Lakehead University Virtual Centre for Advanced Research in Teaching and Training (LUV CARTT)	12/16/2004	\$5,590,730	\$621,831
LOF-1	Infrastructure for Lakehead University Green Energy Laboratory (LUGEL)	05/15/2007	\$338,783	\$135,514
LOF-1	Multi-Data Convergence Lab	09/04/2007	\$130,629	\$42,499
LOF-1	Broadband Communications Networks Laboratory	05/15/2007	\$201,408	\$71,257
LOF-1	Fire Resistance Testing Laboratory	04/29/2009	\$566,913	\$189,830
LOF-1	Phase Analysis of Materials Using X-ray Diffraction	04/22/2008	\$346,466	\$136,526
LOF-1	Protecting the health of Ontario's waterways using modern toxicological techniques: upgrade of the Lakehead University Aquatic Research Laboratory	03/19/2010	\$532,715	\$171,621
LOF-1	Nanometer-Scale Investigations of Materials and Environmental Remediation Processes	08/04/2010	\$780,768	\$312,292
LOF-2	Lakehead University Chemosensory Ecotoxicology Laboratory	11/07/2008	\$322,777	\$125,000
LOF-3	Resources and Sustainable Development in the Arctic	06/28/2011	\$218,141	\$87,256
NOF	Collaborative Northern Environmental & Archaeological Research Initiative	10/24/2005	\$200,775	\$73,493
NOF	Chromatin architecture, epigenetic, biochemical and molecular approaches for systems biology based investigation of gene expression during development and stress in plant cells.	10/24/2005	\$268,573	\$103,714
NOF	Laboratory for Intelligent Mechatronic Systems	10/24/2005	\$276,556	\$110,366
NOF	Laboratory for Particle Science and Technology	02/24/2005	\$185,164	\$73,588
NOF	Infra-Red (IR) Spectroscopy and Hydrothermal Experimental Facility	02/24/2005	\$341,512	\$125,913

## Institution / Établissement

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<b>Laurentian University</b>			<b>Total: 30</b>	<b>\$6,233,053</b>	<b>\$2,393,750</b>
CRCIF	Infrastructure for CRC in Precambrian Geology: A microanalytical facility for small-scale study		07/22/2005	\$588,633	\$235,453
LOF	Sediment analysis and paleolimnological laboratory		08/31/2006	\$123,529	\$49,412
LOF	Mass spectrometer for identification of bioactive natural products		12/21/2006	\$192,559	\$73,633
LOF	Pulsed Electron Deposition Facility for Value-Added Advanced Materials Processing		12/21/2006	\$320,354	\$85,095
LOF-1	A Laboratory for Experimental Petrology and Ore Deposits Research at Laurentian University		08/11/2008	\$123,238	\$49,295
LOF-1	Rotational Rheometer System		05/15/2007	\$157,608	\$57,420
LOF-1	Multidisciplinary Qualitative Research Laboratory		09/04/2007	\$160,993	\$63,943
LOF-1	Gas Chromatograph Mass Spectrometer for Characterization of Xenobiotic Disposition in Skeletal Tissues and Analysis of Complex Environmental Samples		04/22/2008	\$177,250	\$66,733
LOF-1	Laboratory for Molecular, Ecological and Evolutionary Genetics		04/22/2008	\$327,944	\$131,178
LOF-1	The Use of Atomic Force Microscopy and Scanning Tunneling Microscopy in the Development of Sensors that Incorporate Gold Nanoparticle Assemblies		04/29/2009	\$219,228	\$87,058
LOF-1	Field Assessment of Boreal Shield Sediment Budgets and Landscape Change		11/07/2008	\$149,273	\$59,709
LOF-1	Cognitive Health Research Laboratory		11/07/2008	\$426,942	\$170,772
LOF-1	A trace element mapping facility for geological samples		03/19/2010	\$427,252	\$170,901
LOF-1	A CPU/GPU cluster to support large scale computer simulations in materials science		05/10/2010	\$40,057	\$15,862
LOF-2	SNO+ calibration development and test facility		03/19/2010	\$228,548	\$91,419
LOF-2	Liquid Chromatography / Mass Spectrometry Instrument Package for Metabolome Characterization		05/10/2010	\$373,715	\$149,486
LOF-2	Infrastructure Support for CRC in Rural and Northern Children's Health		08/04/2010	\$36,564	\$13,354
LOF-2	Laboratory and Field Equipment in Support of Industrial and Far North Watershed Research		08/04/2010	\$651,293	\$231,731
LOF-2	Polymer Nanomaterial Characterization Facility		02/09/2010	\$180,590	\$61,768
LOF-2	Laurentian University Modernization of Qualitative Research Laboratory		02/09/2010	\$58,521	\$23,408
LOF-2	Enhanced infrastructure for Canada Research Chair in Applied Evolutionary Ecology		02/09/2010	\$157,348	\$62,381
NOF	Server and Related Equipment/Software to Support Rural Health Research.		02/24/2005	\$62,562	\$25,025
NOF	Polyolefin Synthesis Facilities		07/22/2005	\$148,679	\$58,796
NOF	Adaptive variation in behavioural and physiological traits at geographic extremes.		10/24/2005	\$103,184	\$41,273
NOF	Molecular weight determination of well-defined, stimuli-responsive, carbohydrate polymers prepared by living radical polymerization – Triple Detection Gel Permeation Chromatography		07/22/2005	\$121,095	\$48,433

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<b><i>Program /</i></b>	<b><i>Project Title /</i></b>	<b><i>Principal Investigator /</i></b>	<b><i>Décision</i></b>	<b><i>Coût</i></b>	<b><i>Contribution</i></b>
<b><i>Programme</i></b>	<b><i>Titre du projet</i></b>	<b><i>Chercheur principal</i></b>	<b><i>ministère</i></b>	<b><i>total</i></b>	<b><i>max. du FRO</i></b>
NOF	Infrastructure to facilitate conservation genetic studies of amphibian populations.		10/24/2005	\$122,620	\$49,048
NOF	Stopped-flow UV-VIS spectrophotometer/spectrofluorometer system for investigations on the mechanism of anthrax lethal factor and other zinc-dependent metalloproteins.		06/26/2006	\$164,002	\$65,601
NOF	Surface Infrared Spectrometer for Characterization of Chemistry at the Liquid/Solid Interfaces		02/24/2005	\$151,292	\$60,517
NOF	Evolutionary and Behavioural Ecology of Mammals: Individual and Genetic Approaches		02/24/2005	\$112,379	\$44,725
NOF	Equipment to Facilitate Food Web Studies of Boreal Lakes		02/24/2005	\$125,801	\$50,321

### ***McMaster University***

***Total: 105 \$201,664,401 \$63,347,955***

CRCIF	Molecular Analysis of the Regulation and Evolution of Gene Networks During Animal Development		02/24/2005	\$408,427	\$125,000
CRCIF	Design of Multiple-Input Multiple-Output Wireless Communication Systems		02/24/2005	\$321,298	\$121,946
CRCIF	Resistance to Antiplatelet Drugs and Cardiovascular Prevention: Laboratory Diagnosis, Mechanisms, Genetic Determinants, and New Treatments		02/24/2005	\$332,252	\$132,901
CRCIF	Infrastructure for the Canada Research Chair in Musculoskeletal Trauma and Surgical Outcomes		02/24/2005	\$197,024	\$78,810
CRCIF	Genetic and molecular analysis of development and regulation in multicellular bacteria		07/22/2005	\$163,048	\$65,000
CRCIF	Establishing a research laboratory to measure acute and chronic airway inflammatory changes in obstructive airway disease		06/26/2006	\$254,731	\$101,892
CRCIF	STOE IPDS Diffractometer - State-of-the-art Image Plate Single Crystal-X-ray Diffractometer for Investigation of Complex Inorganic Solid-state Materials		12/21/2006	\$261,369	\$100,000
CRCIF	Infrastructure to investigate the role of T lymphocytes in the pathogenesis of allergic asthma and the development of peptide-based vaccines for the treatment of allergic and autoimmune diseases.		08/31/2006	\$492,695	\$197,078
CRCIF	Prerequisites for translational research from basic science to the clinic in neuroimmunology		08/31/2006	\$406,854	\$162,741
IF	A National Ultrahigh-Resolution Electron Microscopy Facility for Nanoscale Materials Research		12/16/2004	\$17,847,869	\$1,101,176
IF	Biological Microbeam for Low Dose Radiobiology Research		12/16/2004	\$1,174,624	\$145,990
IF	Polymer Microscopy		12/16/2004	\$950,688	\$113,312
IF	Major Equipment for Digital Cinema Research		12/16/2004	\$1,008,801	\$109,950
IF	Centre for Functional Genomics and Chemical Genetics		12/16/2004	\$10,957,882	\$1,362,722
LEF	Canadian Cyberpsychology and Anxiety Virtual Lab		03/15/2007	\$168,532	\$67,413
LEF	Centre for Microbial Chemical Biology		03/15/2007	\$20,070,834	\$7,824,028
LEF	Laboratory for Advanced Photovoltaic Research		06/28/2009	\$12,964,178	\$5,123,758
LEF	Auditory Interaction and Communication in Complex Environments: Neural, Developmental and Applied Aspects		06/28/2009	\$6,117,666	\$2,346,412
LOF	Advanced Structural Control Testing Equipment and Full-Scale Monitoring System		08/31/2006	\$314,686	\$106,334
LOF	Function and Regulation of Myogenic Progenitors during Aging and Exercise		08/31/2006	\$344,883	\$120,000



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LOF	Equipment for Measuring Biological Responses to Biomaterials		08/31/2006	\$248,476	\$99,331
LOF	Microfabrication and microfluidic testing facility for plastic/polymer based biomedical devices		08/31/2006	\$246,045	\$98,418
LOF-1	Infrastructure for the Development and Characterization of Advanced Functionally Graded Materials		05/15/2007	\$179,823	\$71,929
LOF-1	Biomechanics of musculoskeletal system at tissue and cellular levels		05/15/2007	\$246,134	\$98,372
LOF-1	Time domain optical spectroscopy and imaging for biomedical applications		05/15/2007	\$317,103	\$120,000
LOF-1	Molecular Basis for the Progression of Chronic Kidney Disease		05/15/2007	\$333,007	\$133,203
LOF-1	A new cold water aquatic facility to study the impacts of invasive species on Great Lakes ecosystem health		05/15/2007	\$158,683	\$62,000
LOF-1	Building the Auditory Brain		05/15/2007	\$211,945	\$80,000
LOF-1	Visual Design and Analysis Laboratory		06/26/2007	\$257,539	\$100,000
LOF-1	A new environmental toxicology laboratory and zebrafish facility to study the impacts of contaminants on vertebrate aquatic species.		06/26/2007	\$277,976	\$100,000
LOF-1	Infrastructure to assess the impact of environmental microbiota on development of the immune system in health and disease		06/26/2007	\$691,164	\$276,466
LOF-1	Free-Space Optical Communications Algorithms Laboratory		06/26/2007	\$259,216	\$100,000
LOF-1	Multi-Phase Flow Diagnostic Equipment for Flow Measurement of Critical Flows in Fossil and Nuclear Power Plants-Phase Doppler Anemometer		09/04/2007	\$267,740	\$106,313
LOF-1	Laboratory for the Structure of New Materials		09/04/2007	\$946,939	\$363,038
LOF-1	Mechanisms underlying food intolerance in functional gut disorders		04/22/2008	\$336,152	\$134,461
LOF-1	Digital Human Modeling and Simulation In Occupational Biomechanics and Ergonomics		08/11/2008	\$581,082	\$225,000
LOF-1	Robotic test bed for soft tissue image guided medical interventions research		04/22/2008	\$173,293	\$69,317
LOF-1	Advancing the study of human social perception		08/11/2008	\$146,607	\$56,932
LOF-1	A Theory Lab for Multi-scale Modeling of Infectious Diseases		08/11/2008	\$168,208	\$67,284
LOF-1	Thick Specimen Confocal Microscope for Environmental and Health Research		11/07/2008	\$449,098	\$179,639
LOF-1	Pathobiology of Infectious Disease: Infrastructure for microbial biochemistry and in vivo imaging		11/07/2008	\$936,896	\$374,758
LOF-1	Infrastructure to support research in watershed ecohydrology: Ecosystem impacts and restoration		04/29/2009	\$382,572	\$153,029
LOF-1	McMaster Archaeological XRF Lab (MAX Lab)		06/03/2009	\$158,238	\$63,301
LOF-1	Thermal Energy Recovery & Management Testing Platform		06/03/2009	\$250,000	\$99,492
LOF-1	EXTREME DYNAMIC LOAD SIMULATOR		04/29/2009	\$310,558	\$110,000
LOF-1	G-Scale: Gaming Scalability Environment		06/03/2009	\$704,369	\$258,884
LOF-1	Creation of a transdisciplinary laboratory for neurocognitive studies of language function, dysfunction, and acquisition		04/29/2009	\$631,518	\$252,607

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LOF-1	Infrastructure to study the interactions between immune and endocrine systems in gut in the context of intestinal pathophysiology and host defense		06/03/2009	\$628,745	\$250,341
LOF-1	Infrastructure for Metabolic Research Within the Neonatal Intensive Care Unit		09/24/2009	\$993,282	\$396,905
LOF-1	Mechanisms underlying the regenerative capacity of skeletal muscle in health and disease.		03/19/2010	\$632,065	\$249,396
LOF-1	Laboratory for Mining Microbial Genomes for Bioactive Natural Products		09/24/2009	\$649,315	\$248,575
LOF-1	Non-Invasive Imaging of Healthy and Diseased Human Skeletal Muscle		09/24/2009	\$259,474	\$100,000
LOF-1	Laboratory for Membrane and Protein Dynamics		09/24/2009	\$466,629	\$180,000
LOF-1	Brain-imaging in an immersive motion simulator		03/19/2010	\$733,081	\$235,406
LOF-1	Laboratory for Development of X-Ray Analysis Systems for Characterisation of Biological Materials and Body Composition		03/19/2010	\$250,000	\$100,000
LOF-1	Infrastructure to Establish a Research Laboratory for Bone Adaptation and Biomechanics		03/19/2010	\$679,770	\$250,000
LOF-1	Drug development in a post- antibiotic world: Infrastructure to develop novel immunomodulatory therapies for treatment of infectious disease		03/19/2010	\$335,279	\$130,471
LOF-1	Climate impacts on greenhouse gas emissions in forested landscape of southern Ontario		08/04/2010	\$387,870	\$155,147
LOF-1	State-of-the-Art Measurement Systems to Transform the Health and Well-Being of Urban Neighbourhoods		02/09/2010	\$518,534	\$207,423
LOF-1	Brain Metal Imaging Laboratory		02/09/2010	\$342,176	\$120,000
LOF-1	Molecular dissection of the invasion machinery required for entry into human red blood cells of the malaria parasite.		08/04/2010	\$770,248	\$308,099
LOF-1	Lentiviral-mediated RNAi technology and high-content screening to systematically analyze programmed cell death in cancer cells		02/09/2010	\$500,000	\$200,000
LOF-1	A Biomechanical Approach to Physical Activity Guidelines for Knee Osteoarthritis		02/09/2010	\$431,229	\$172,519
LOF-1	Plant Growth and Molecular Profiling Facility		02/09/2010	\$258,155	\$100,000
LOF-1	Laboratory for Rare Stable Isotope Research		06/28/2011	\$676,903	\$240,000
LOF-1	Infrastructure for Pediatric Exercise and Environmental Testing and Flow Cytometry Suite		06/28/2011	\$877,436	\$350,975
LOF-2	Infrastructure to quantitatively analyze and prospectively isolate human stem cell populations		05/15/2007	\$971,236	\$388,494
LOF-2	Infrastructure for Investigating Cell Signaling Targets of GSK-3 In Vitro and In Vivo		06/26/2007	\$574,587	\$229,834
LOF-2	Epigenetic control of human stem cells		04/22/2008	\$420,760	\$167,407
LOF-2	Infrastructure for a Brain Tumor Initiating Cell Laboratory		04/22/2008	\$726,744	\$290,365
LOF-2	Spectroscopic analysis of membrane protein interactions		04/22/2008	\$236,014	\$90,676
LOF-2	Canada Research Chair in Thrombosis		09/24/2009	\$813,788	\$325,515
LOF-2	Microwave Imaging Experimental Facility		08/11/2008	\$287,840	\$111,391
LOF-2	Laboratory for Human Motor Control Neuroscience		08/11/2008	\$723,239	\$284,596
LOF-2	Engineering Human Embryonic Stem Cells		11/07/2008	\$564,387	\$225,755



## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-2	Infrastructure to support the study of molecular metabolic research for the treatment of obesity and diabetes		11/07/2008	\$982,373	\$391,154
LOF-2	Environmental Isotope Biogeochemistry		04/29/2009	\$167,778	\$63,999
LOF-2	Infrastructure for Chair in Immunology of Respiratory Diseases and Allergy		05/10/2010	\$275,905	\$87,030
LOF-2	Quartz Crystal Microbalance for Engineering Paper Surfaces for Improved Bioactivity		03/19/2010	\$266,374	\$106,078
LOF-2	Infrastructure to support the study of genetic and molecular determinants of stroke		05/10/2010	\$977,255	\$386,407
LOF-4	Understanding the Genetic and Environmental Determinants of obesity over the life course.		08/04/2010	\$1,999,881	\$797,725
LOF-4	Macromolecular crystallization and X-ray diffraction facility		08/04/2010	\$2,000,000	\$800,000
NIF	Systems biology center of host-intestinal bacterial relationships in health and disease		03/15/2007	\$4,131,884	\$1,614,154
NIF	Micro- and Nano-Systems Laboratory		03/15/2007	\$10,652,938	\$4,256,725
NIF	The Canadian Longitudinal Study on Aging: Understanding the complexity of aging health through interdisciplinary research		06/28/2009	\$26,057,659	\$4,849,308
NIF	Biointerfaces Institute		06/28/2009	\$19,560,539	\$7,227,157
NIF	McMaster Intense Positron Beam Facility		06/28/2009	\$5,909,706	\$2,326,166
NIF	Centre for Advanced Nuclear Systems		06/28/2009	\$23,302,409	\$9,172,600
NOF	Fetal origins of child and adult disease: the role of environmental toxicants		02/24/2005	\$145,098	\$56,326
NOF	Facility for Studies of Optical Self-trapping in Photochemical Systems		07/22/2005	\$302,845	\$120,000
NOF	High-field Biomolecular Nuclear Magnetic Resonance at McMaster University		02/24/2005	\$577,815	\$170,000
NOF	Structural and Functional studies of DNA replication and repair proteins		02/24/2005	\$281,273	\$112,509
NOF	Establishment of a biosafety level 2 animal facility for investigation of chronic inflammation and pulmonary fibrosis		02/24/2005	\$309,571	\$123,829
NOF	Comprehensive analyses of low abundance metabolites by capillary electrophoresis-mass spectrometry		02/24/2005	\$211,841	\$80,000
NOF	Analysis of immune gene regulation in animal models of psychiatric illness		07/22/2005	\$237,289	\$94,915
NOF	A Mass Spectrometry System for the Determination of Protein Complexes, Structures and Modifications.		07/22/2005	\$707,869	\$170,000
NOF	Laboratory for Interdisciplinary Research on Archaeological Ceramics		10/24/2005	\$212,543	\$83,702
NOF	Laboratory of Auditory Physiology and Behavioural Neuroscience		10/24/2005	\$311,444	\$100,000
NOF	Infrastructure for Research on Biodiversity and Gene Duplication		10/24/2005	\$206,567	\$80,000
NOF	A Molecular Analysis of Intracellular Signal Transduction in Cancer Progression		02/24/2005	\$250,597	\$100,080
NOF	Cognitive Ecology Laboratory		02/24/2005	\$300,000	\$120,000
NOF	Infrastructure for an Integrative and Molecular Physiology Program Examining the Regulation of Metabolism in Response to Environmental Stress and Exercise		02/24/2005	\$302,390	\$120,000

<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>	
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>			
NOF	Molecular Mechanisms of Allergic Airway Inflammation		02/24/2005	\$212,067	\$80,000
NOF	Cryo-electron microscopy studies on proteases involved in the cell protein quality control system.		02/24/2005	\$271,410	\$108,564
NOF	Research facility for inert-atmosphere synthesis and electrochemistry		02/24/2005	\$201,573	\$80,000
<b><i>Mount Sinai Hospital</i></b>			<b><i>Total: 4</i></b>	<b><i>\$69,207,261</i></b>	<b><i>\$20,388,961</i></b>
IF	A Program in Integrated Systems Biology - complex relationships and common patterns governing biological networks at Samuel Lunenfeld Institute		12/16/2004	\$15,119,321	\$1,880,239
LEF	The CMHD: An integrated and regional platform for mouse models of human disease		06/28/2009	\$18,352,735	\$6,523,359
LEF	Quantitative Cell Biology and Proteomics		06/28/2009	\$34,610,205	\$11,542,412
LEF	A clinical phenotyping and computational facility for the study of complex disease		06/28/2009	\$1,125,000	\$442,951
<b><i>Nipissing University</i></b>			<b><i>Total: 5</i></b>	<b><i>\$2,204,962</i></b>	<b><i>\$680,993</i></b>
LOF-1	Interactions between the respiratory sinus arrhythmia and the efficiency of pulmonary gas exchange, cardiac output, muscle oxygen consumption, and heart rate variability during exercise in humans.		06/28/2011	\$98,485	\$39,386
LOF-2	Nipissing University Environmental History Research Laboratory (NUEHRL)		11/07/2008	\$37,891	\$13,953
LOF-2	Watershed Analysis and Modeling		05/10/2010	\$262,398	\$104,300
NOF	Plant Growth and Imaging Facilities at Nipissing University		10/24/2005	\$1,618,420	\$448,247
NOF	Reactive Oxygen Metabolism, Gene Expression and Aging		02/24/2005	\$187,768	\$75,107
<b><i>Ontario College of Art and Design University</i></b>			<b><i>Total: 1</i></b>	<b><i>\$15,519,685</i></b>	<b><i>\$6,207,874</i></b>
NIF	Inclusive Design Institute		06/28/2009	\$15,519,685	\$6,207,874
<b><i>Perimeter Institute</i></b>			<b><i>Total: 1</i></b>	<b><i>\$30,649,865</i></b>	<b><i>\$10,375,417</i></b>
LEF	Building on Success: Perimeter Institute Expansion for Global Leadership		06/28/2009	\$30,649,865	\$10,375,417
<b><i>Queen's University</i></b>			<b><i>Total: 118</i></b>	<b><i>\$255,665,105</i></b>	<b><i>\$60,739,969</i></b>
CRCIF	Connecting Microscale and Macroscale Deformation		02/24/2005	\$312,500	\$125,000
CRCIF	Engineering of Synovial Joint Tissues		02/24/2005	\$312,500	\$125,000
CRCIF	Social Cognitive Development Research Facility		02/24/2005	\$100,000	\$40,000
CRCIF	Protein purification and structure characterization facility		10/24/2005	\$80,000	\$32,000
CRCIF	Aquatic Ecosystems Health Laboratory		10/24/2005	\$498,500	\$199,400
CRCIF	Laboratory Instruments and Field Equipment to Examine Land-Use Change Effects on Carbon and Nitrogen Cycling in Canadian Ecosystems		07/22/2005	\$420,000	\$168,000
CRCIF	Biorganic and Physical Organic Research Laboratory		07/22/2005	\$500,000	\$200,000
CRCIF	Development of noble liquid particle astrophysics detectors and solar neutrino studies.		10/24/2005	\$500,000	\$200,000

## Institution / Établissement

Program / Programme	Project Title / Titre du projet	Principal Investigator / Chercheur principal	Ministry Decision / Décision ministère	Total Costs / Coût total	Max. ORF contribution / Contribution max. du FRO
CRCIF	Integrative approaches to vision research: molecular vision, retinal development, retinal information processing, visually-guided behaviour and biodiversity.		06/26/2006	\$575,000	\$230,000
CRCIF	Multi- faceted approach to chiral photonic research: nonlinear chiroptical microscopy, self-assembly and surface science, chiroptical and magneto-chiral devices		08/31/2006	\$554,000	\$221,600
CRCIF	Rational design of novel anti-cancer agents using structural and functional information of the interaction between natural product small molecules and their protein targets.		12/21/2006	\$1,371,973	\$549,189
CRCIF	Dark Matter search with cryogenic detectors : contributions to CDMS and SuperCDMS		12/21/2006	\$480,000	\$192,000
IF	A Secure Multidisciplinary High Performance Computing Virtual Laboratory for Innovative Research.		12/16/2004	\$49,496,033	\$3,990,849
IF	Mobile Laboratories for Clinical, Behavioural and Genetic Subgrouping of Families with Autism Spectrum Disorders and Developmental Disabilities		12/16/2004	\$2,871,206	\$357,063
IF	Ensuring Performance of Geosynthetics Under Extreme Environmental Conditions		12/16/2004	\$1,650,121	\$205,209
LEF	Development of New Assessment Tools for Evaluation of Brain Function and Dysfunction		03/15/2007	\$17,525,705	\$7,010,282
LEF	Integrated Technologies for Bone and Joint Health: Multi-centre Infrastructure Development Programme Phase 4		06/28/2009	\$1,741,201	\$696,480
LEF	emSYSCAN - Embedded Systems Canada		06/28/2009	\$48,259,058	\$9,240,147
LEF	Effects of the geosphere-biosphere interface on element migration in the nearsurface environment		06/28/2009	\$4,990,218	\$1,996,087
LEF	Laboratories for Broadband Optical and Wireless Systems (LBOWS)		06/28/2009	\$13,796,399	\$1,242,432
LOF	Nanophotonics Computer Cluster: Physics and Applications of Photonic Nanostructures		08/31/2006	\$412,500	\$165,000
LOF	Facility for research on the neural basis of the affective component of pain		08/31/2006	\$300,000	\$120,000
LOF	Adolescent Socioemotional Development Laboratory		08/31/2006	\$137,425	\$54,970
LOF	Infrastructure for MEMS/NEMS dynamic testing		08/31/2006	\$517,407	\$206,962
LOF	Multidisciplinary Analysis and Design of Innovative Biomechanical and Automotive Systems		12/21/2006	\$441,523	\$100,000
LOF	Delineating the mechanisms of microvascular dysfunction during gastrointestinal disease		12/21/2006	\$200,000	\$80,000
LOF	Integrating Basic and Translational Cancer Research Through Studies of the DNA Damage Response		12/21/2006	\$544,400	\$217,760
LOF-1	Studies of Novel Semiconductor Spintronics Based on Surface Acoustic Waves		05/15/2007	\$650,000	\$260,000
LOF-1	An integrated approach to lake dynamics: Protecting Canada's aquatic resources		06/26/2007	\$625,000	\$250,000
LOF-1	Behavioural Properties and Cortical Mechanisms of Cognitive Control		06/26/2007	\$287,500	\$115,000
LOF-1	Development of an empirical software engineering facility capable of mining software repositories for large long lived industrial and open source projects		08/11/2008	\$318,425	\$100,000
LOF-1	600 MHz biomolecular NMR instrument for studies of protein-ligand interactions related to human health and biotechnology		05/15/2007	\$546,047	\$218,419

## Institution / Établissement

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-1	Perceptual, Social and Cognitive Development in Autism		06/26/2007	\$91,000	\$36,400
LOF-1	Advanced Phenomics of Experimental Cardiovascular Conditions and Treatments		04/22/2008	\$402,553	\$161,021
LOF-1	Infrastructure for the Search of Quantum Entanglement in Electrochemical Processes Involving Hydrogen		11/07/2008	\$498,474	\$199,390
LOF-1	Advanced Input and Display Techniques for Transparent Computing Technologies		04/22/2008	\$994,431	\$397,773
LOF-1	Signal Processing for Fiber-Optic Communications		06/03/2009	\$454,280	\$181,711
LOF-1	Confocal Microscope for Biological Imaging		04/22/2008	\$755,701	\$302,250
LOF-1	Ultimate Strength of Buried Infrastructure		04/22/2008	\$592,022	\$236,809
LOF-1	Preclinical testing of novel therapies for cardiovascular disease and cancer		04/22/2008	\$596,828	\$238,731
LOF-1	DEAP/CLEAN: Dark Matter Particle Search with Liquid Argon		09/04/2007	\$1,004,560	\$401,391
LOF-1	Biomimetic Materials for Tissue Engineering and Regeneration		04/22/2008	\$959,624	\$383,849
LOF-1	High resolution three dimensional imaging of the structure of materials during in situ deformation		04/22/2008	\$937,010	\$374,804
LOF-1	Pharmacoepidemiology and Economics Research Unit (PERU)		09/04/2007	\$1,197,815	\$438,556
LOF-1	Dysregulation of cytokine expression in HIV pathogenesis		09/04/2007	\$440,000	\$176,000
LOF-1	Human Motion Performance Laboratory		04/22/2008	\$1,619,787	\$542,000
LOF-1	A Therapeutic Approach for the Treatment of Melanoma using RNA interference (RNAi)		04/22/2008	\$415,845	\$96,339
LOF-1	Molecular Biology of Herpesvirus-Cell Interactions		04/22/2008	\$400,000	\$160,000
LOF-1	Tracing elements in natural systems		04/22/2008	\$784,757	\$313,903
LOF-1	Centre for Chiral Catalysis (CCUBED)		08/11/2008	\$736,232	\$294,493
LOF-1	Perceptual and Cognitive Processing of Complex, Real-World Scenes		08/11/2008	\$245,100	\$98,040
LOF-1	Origins of Biodiversity		11/07/2008	\$300,000	\$120,000
LOF-1	Percutaneous Oncology Intervention Laboratory		04/29/2009	\$1,000,000	\$400,000
LOF-1	New Process Development for Complex Copper and Nickel Ores and Concentrates		11/07/2008	\$250,000	\$100,000
LOF-1	Dynamics of sensorimotor computations for perception and action: modeling and experiments		11/07/2008	\$500,000	\$200,000
LOF-1	Tissue Engineering with Adipose-derived Stem Cells		11/07/2008	\$250,000	\$100,000
LOF-1	Elastomeric Polymers for Tissue Engineering: Building Biomimetic Scaffolds		04/29/2009	\$312,500	\$125,000
LOF-1	Enhanced Disease Surveillance for the Rapid Detection and Mitigation of Gastrointestinal Illness Outbreaks Caused By Drinking Water System Contamination		04/29/2009	\$375,000	\$150,000
LOF-1	Ultra-High Efficiency InGaN Solar Photovoltaic Cells		04/29/2009	\$500,000	\$200,000
LOF-1	Translating New Anti-Cancer Treatments into Population Benefit: A Provincial Chemotherapy and Outcomes Database		04/29/2009	\$293,588	\$78,624
LOF-1	The function and structure of human arteries in health, stress and disease		06/03/2009	\$200,000	\$80,000

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-1	Probiotics and Gastrointestinal Diseases		04/29/2009	\$450,000	\$180,000
LOF-1	Neurocognition and Functional Disability in Schizophrenia: Assessment and Intervention		04/29/2009	\$186,250	\$74,500
LOF-1	Laboratory and field equipment to study eco-evolutionary feedbacks in coupled ecological systems		04/29/2009	\$328,000	\$131,200
LOF-1	Developing Intervention Models and Dissemination Strategies for Promoting Physical Activity for Adults with a Mobility Impairment		06/03/2009	\$237,500	\$95,000
LOF-1	Forest-Tundra Dynamics in a Changing Climate		03/19/2010	\$260,000	\$104,000
LOF-1	Slowing the Allergy Epidemic through Understanding and Prevention: A Dual-Themed Research Initiative in Atopy		06/03/2009	\$448,773	\$179,509
LOF-1	Cellular Genomics of Cancer		06/03/2009	\$1,236,624	\$494,649
LOF-1	Establishing a Queen's GeoComputation and Analysis Laboratory (GCAL) for Population Health and Disease Modeling		09/24/2009	\$252,206	\$100,882
LOF-1	Structural and functional analysis of cancer-related proteins		06/03/2009	\$125,000	\$46,165
LOF-1	Control of Cell Surface Channel Density by Potassium as a Novel Mechanism for hERG Regulation		09/24/2009	\$500,000	\$200,000
LOF-1	Gender differences in sexuality		09/24/2009	\$228,930	\$91,572
LOF-1	Targeting Ischemic Depolarization in Acute Stroke		03/19/2010	\$355,000	\$142,000
LOF-1	Discriminating Detectors for Dark Matter		03/19/2010	\$462,755	\$185,102
LOF-1	Paleolimnological approaches to environmental issues		03/19/2010	\$125,000	\$50,000
LOF-1	Role of immune cells in promoting angiogenesis during pregnancy and their regulation by microRNAs		05/10/2010	\$300,000	\$120,000
LOF-1	Helping young adults at risk for obesity and type II diabetes: Molecular mechanisms and the role of exercise		05/10/2010	\$873,213	\$349,285
LOF-1	Socio-economic Status, Social Networks, and Cardiovascular Disease		08/04/2010	\$109,570	\$43,828
LOF-1	Bio-Mechatronics and Robotics Laboratory		08/04/2010	\$375,000	\$150,000
LOF-1	Cooperative mining machines research test-bed		06/28/2011	\$440,188	\$150,000
LOF-1	Molecular Characterization of Proteins Critical to Xenobiotic Disposition and Cancer: Enhanced Detection and Quantitation		02/09/2010	\$1,000,000	\$400,000
LOF-1	Advanced Microstructure Characterization Lab		02/09/2010	\$312,500	\$125,000
LOF-1	Early detection of deterioration mechanisms for civil infrastructure		02/09/2010	\$325,000	\$130,000
LOF-2	Overcoming the Barriers to Realising the Full Economic and Environmental Benefit of Fuel Cells for Canada		05/15/2007	\$514,799	\$205,920
LOF-2	Computational Turbulence Research		04/22/2008	\$312,500	\$125,000
LOF-2	Behavioural Pain Assessment Workstation		04/22/2008	\$61,771	\$24,707
LOF-2	Large-memory computers for calculating spectra and rate constants by solving the Schroedinger equation		09/04/2007	\$187,500	\$75,000
LOF-2	Innovation in the Manufacturing of Polymers		09/04/2007	\$625,000	\$250,000
LOF-2	The ecology of arctic ecosystems and their sensitivity to climate change		08/11/2008	\$125,000	\$50,000

## Institution / Établissement

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LOF-2	Structure-based design and screening of inhibitors against the calpain proteases		03/19/2010	\$122,824	\$49,130
LOF-2	Field analyzers for measurement of ecosystem carbon exchange processes		08/04/2010	\$125,000	\$50,000
LOF-2	Assessing the long-term performance of geosynthetics used to protect the environment from contaminants		08/04/2010	\$600,000	\$240,000
LOF-2	Immune cell contributions to the genesis of human hypertension		02/09/2010	\$125,000	\$50,000
NIF	Canadian Centre for Health and Safety in Agriculture: National Agricultural Industrial Hygiene Laboratory - A world leader linking agricultural/rural exposures to human health (Centre National Lab) Univ Sask		03/15/2007	\$82,524	\$33,010
NIF	Thin Film Coating Initiative: Advancing Technology Development and Industrial Applications		06/28/2009	\$3,630,900	\$1,452,360
NIF	Particle Astrophysics Experiments at SNOLAB - SNO+ and DEAP/CLEAN		06/28/2009	\$26,404,070	\$9,051,791
NIF	Testing of Nuclear Materials in a Simulated Reactor Environment		06/28/2009	\$17,494,800	\$6,997,920
NIF	Toward a Healthy Environment: Green Chemistry and Green Chemicals		06/28/2009	\$21,067,117	\$269,918
NOF	Developmental Psycholinguistics Research Facility		02/24/2005	\$200,000	\$80,000
NOF	Novel methods to assess bone quality in vivo and determine critical factors associated with bone and joint health		02/24/2005	\$136,000	\$54,400
NOF	Dependable Software Systems and Their Evolution		02/24/2005	\$270,000	\$108,000
NOF	Molecular and Cellular Function of Tumor Suppressor Genes		02/24/2005	\$250,577	\$100,000
NOF	Characterization of Innovative Infrastructure Materials and Assemblies at Extreme Temperatures		07/22/2005	\$261,161	\$104,468
NOF	Nanostructure ultrafast laser laboratory		10/24/2005	\$589,800	\$235,920
NOF	Data-Intensive Research in Biomedical Computing		07/22/2005	\$550,000	\$220,000
NOF	A Platform for Wireless Ad hoc and Sensor Networks		10/24/2005	\$375,000	\$150,000
NOF	Malleable, Cost-effective, High-performance Computing Systems		07/22/2005	\$441,005	\$100,000
NOF	Cold Regions Biogeochemical Research		10/24/2005	\$320,000	\$128,000
NOF	Sexual Health Research Facility		10/24/2005	\$160,000	\$64,000
NOF	Role of Vagal Afferents in Nutrient Signalling in Health and Disease		10/24/2005	\$312,500	\$125,000
NOF	Laboratory for Last-mile Photonics Networking Technologies		10/24/2005	\$500,000	\$200,000
NOF	Shape control: From DNA damage recognition and repair to self-assembled artificial ion channels		10/24/2005	\$380,000	\$152,000
NOF	Presentation of virus antigens and the induction of host immunity		10/24/2005	\$300,000	\$120,000
NOF	Investigation of soil slope instability processes		10/24/2005	\$625,000	\$250,000
NOF	Biochemical and molecular mechanisms of peroxisome proliferators-activated receptors (PPARs) –mediated influence on carcinogenesis		06/26/2006	\$850,000	\$340,000
NOF	Integrative facility for the development of novel animal models of atherothrombotic disease		06/26/2006	\$150,000	\$60,000



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<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		

NOF	Enzyme Mechanisms and Protein Engineering		02/24/2005	\$312,000	\$124,800
NOF	Gastrointestinal Epithelial Response to Allergy: Cellular and Molecular Mechanisms		02/24/2005	\$150,000	\$60,000

### ***Royal Military College of Canada***

***Total: 3 \$4,739,948 \$722,653***

IF	Fuel Cell Research and Innovation Centre		12/16/2004	\$4,243,624	\$527,737
LOF-2	Quasi-simultaneous laser welding system		04/29/2009	\$374,689	\$147,075
LOF-2	Controlled Plant Growth Chamber for Phytoextraction Research using Persistent Organic Pollutant (POP)-contaminated soils		03/19/2010	\$121,635	\$47,841

### ***Ryerson University***

***Total: 28 \$18,533,913 \$5,315,796***

CRCIF	Biomedical ultrasonics laboratory		02/24/2005	\$296,057	\$118,414
CRCIF	Canada Research Chair for Modern Literature and Culture		02/24/2005	\$308,021	\$123,208
CRCIF	Satellite System Design and Simulation		06/26/2006	\$312,441	\$124,381
CRCIF	Experimental Systems for Research on Modular and Reconfigurable Robot and Aircraft Engine Bleed Air Systems Control		12/21/2006	\$384,496	\$150,000
LEF	Advanced biomedical ultrasound imaging and spectroscopy laboratory: from 1 to 1000MHz		03/15/2007	\$980,562	\$392,225
LEF	Research Infrastructure for Spatial Analysis and Business Geomatics at the Centre for the Study of Commercial Activity		03/15/2007	\$1,918,655	\$424,843
LEF	WindTech R&D: Expansion of the Laboratory for Electric Drive Application and Research (LEDAR) to Advance Wind Technology		06/28/2009	\$1,824,425	\$729,771
LOF-1	The Digital Cinema Laboratory at Ryerson University		06/26/2007	\$2,962,115	\$242,309
LOF-1	Ryerson University combined X-ray diffraction and differential scanning calorimetry facility for the evaluation of phase changes in foods and other materials		09/24/2009	\$907,664	\$264,401
LOF-2	Infrastructure for Chair in Design and Evaluation of Health Interventions		05/15/2007	\$454,580	\$125,000
LOF-2	Abrasive Jet Technology and Particle Impact Infrastructure		06/26/2007	\$334,626	\$133,850
LOF-2	Laboratory for Biomedical Signal Analysis		04/22/2008	\$251,668	\$100,654
LOF-2	Bioengineering and Biophotonics Laboratory for Design, Prototyping, and Laser Micromachining of Innovative Catheter-based Biophotonics Probes		08/11/2008	\$350,435	\$125,000
LOF-2	Scanning confocal laser microscope		09/24/2009	\$161,862	\$30,000
LOF-2	Satellite Model Testing and Control Simulation		02/09/2010	\$283,538	\$111,106
NIF	Centre for Interactive Multimedia Information Mining		03/15/2007	\$2,936,174	\$650,000
NIF	Institute for Research in Stress, Health and Intervention		06/28/2009	\$1,096,974	\$418,512
NIF	EDGE: Experiential Design and Gaming Environment		06/28/2009	\$1,106,154	\$424,538
NOF	A computational modelling environment for innovation in the detection and treatment of cancer.		02/24/2005	\$237,483	\$64,698
NOF	Wavelength Dispersive X Ray Fluorescence facility for multi-element analysis in biological samples		02/24/2005	\$209,126	\$83,650
NOF	Computer Vision in Aerospace Applications Laboratory (CVL)		10/24/2005	\$103,875	\$41,549

<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
NOF	Using Electrical Resistance Tomography & Ultrasonic Doppler Velocimetry to Study the Continuous Mixing Process of Fluids with Yield Stress		\$157,902	\$61,228
NOF	Distributed Fault Tolerant Computing Platform for Multimedia Processing (DMCP)		\$106,619	\$39,366
NOF	Biochemical isolation, identification and functional testing of important ligand receptor complexes from the plasma membrane.		\$91,306	\$34,239
NOF	Ryerson Embodied Architecture Laboratory (REAL)		\$149,942	\$59,969
NOF	Optic Fibre Sensing Wireless Network Laboratory		\$330,170	\$132,068
NOF	Space Avionics and Instrumentation Laboratory (SAIL)		\$158,784	\$63,513
NOF	Distributed Applications and Broadband Networks Laboratory (DABNEL)		\$118,259	\$47,304

***St. Joseph's Health Care*** ***Total: 1*** ***\$27,912,773*** ***\$9,991,000***

LEF	Biomedical multimodality Hybrid Imaging		\$27,912,773	\$9,991,000
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***Sunnybrook Health Sciences Centre*** ***Total: 2*** ***\$23,948,266*** ***\$5,317,857***

LEF	An Integrated Breast Cancer Research Biomatrix		\$2,309,531	\$768,938
NIF	Communication and imaging infrastructure for the Canadian Atherosclerosis Imaging Network (CAIN)		\$21,638,735	\$4,548,919

***The Hospital for Sick Children*** ***Total: 6*** ***\$67,028,818*** ***\$19,664,235***

CA	A station for cell biological and physiological studies combining ultrafast confocal imaging with laser-trap manipulation and force measurements in a contained and controlled environment		\$1,360,459	\$544,183
IF	Integrative Genomics for Health Research		\$11,706,437	\$1,454,459
LEF	Integrative Genomics for Health Research – Phase II		\$19,989,710	\$4,276,707
NIF	Centre for the Investigation of Neuroplasticity in Developmental Disorders		\$7,400,293	\$2,960,117
NIF	Centre for the Study of Complex Childhood Diseases (CSCCD)		\$20,571,919	\$8,228,769
NIF	Disruptive Technologies in Paediatric and Foetal Intervention		\$6,000,000	\$2,200,000

***The University of Western Ontario*** ***Total: 139*** ***\$244,386,174*** ***\$68,059,275***

CRCIF	Development of a neuromuscular and motor control assessment laboratory		\$292,414	\$116,966
CRCIF	Molecular imaging of connexins at the biochemical level, expression of mutant connexins into tissue-relevant cells and characterization of connexin transgenic mice		\$329,996	\$131,998
CRCIF	A Robotic Test-bed for Minimally Invasive Surgery and Therapy		\$345,428	\$138,137
CRCIF	Small Animal Care Unit for Guinea Pig Study		\$251,785	\$100,714
CRCIF	In vivo imaging system for noninvasive studies on myocardial remodeling and heart failure		\$366,176	\$146,471
CRCIF	Research Ethics and Philosophy of Science (REPS) Lab at the University of Western Ontario - Bioethics		\$415,555	\$166,221

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
CRCIF	A Millimeter and Submillimeter Instrumentation Laboratory at The University of Western Ontario		07/22/2005	\$418,854	\$167,542
CRCIF	Functional and Metabolic Imaging: From Cell to Man		07/22/2005	\$5,800,767	\$2,320,306
CRCIF	Social Cognition Laboratory		07/22/2005	\$134,729	\$53,416
CRCIF	Musculoskeletal Rehabilitation: Reducing Physical Disability by Enhancing Joint and Muscle Function		10/24/2005	\$230,571	\$92,228
CRCIF	The neurobiology of sexual motivation and reward		06/26/2006	\$314,629	\$125,852
CRCIF	An integrated platform for high throughput biological analysis		08/31/2006	\$333,628	\$133,451
CRCIF	Computer-Intensive Modeling and Estimation of Lifecycle Human Capital Investment Behaviour		12/21/2006	\$135,256	\$54,102
CRCIF	Cell Signalling in Stroke and Neurodegenerative Diseases		12/21/2006	\$624,962	\$62,767
IF	SHARCNET 2 - Expansion of Existing Grid		12/16/2004	\$35,606,145	\$4,297,250
IF	SHARCNET 2 - New Partners and Networking		12/16/2004	\$13,809,576	\$1,711,439
IF	Tribolindenter and Scanning Probe Facilities for Nanoscale Mechanical and Electrical Studies of Materials and Interfaces		12/16/2004	\$1,619,285	\$195,074
IF	The "Three Little Pigs" Project: Testing Full-scale Houses and Light-frame Buildings to Destruction using Realistic, Extreme Environmental Loads		12/16/2004	\$6,861,496	\$853,296
IF	Canadian Pain Trials Network		12/16/2004	\$3,026,659	\$80,499
IF	VESPERS (VEry Sensitive Elemental and Structural Probe Employing Radiation from a Synchrotron) at the Canadian Light Source		12/16/2004	\$4,504,098	\$560,130
IF	Soft X-ray Beamline for Microcharacterization of Materials at the Canadian Light Source		12/16/2004	\$4,203,279	\$522,724
IF	The University of Western Ontario Research Data Technology Facility: Promoting Innovative Analysis of Canadian Data		12/16/2004	\$318,198	\$39,571
IF	The Biotron		12/16/2004	\$28,360,128	\$3,515,970
IF	Neutron Reflectometer		12/16/2004	\$2,464,455	\$226,173
LEF	National Centre for Audiology		03/15/2007	\$1,674,071	\$667,154
LEF	Green Energy and Environmentally Friendly Chemical Technologies		03/15/2007	\$18,036,200	\$6,782,389
LEF	Enhancing the Science: Polarized Photons and Improved Endstations for the SGM and PGM at the Canadian Light Source		06/28/2009	\$4,047,255	\$1,052,286
LEF	Image-guided Minimally Invasive Intervention and Simulation		06/28/2009	\$6,444,007	\$2,577,602
LOF	Equipment for Integrated Research on Deformation Structures in the Continental Lithosphere		08/31/2006	\$445,677	\$178,272
LOF	Lake and Reservoir System Research Facility (LARSRF)		08/31/2006	\$588,296	\$235,320
LOF	Photonic crystal based micro- and nano-sensors facility		08/31/2006	\$415,315	\$166,126
LOF	A mobile field laboratory for integrative ecological research (Western FLIER)		08/31/2006	\$738,562	\$295,424
LOF	Heating, soil monitoring and nutrient analysis infrastructure for long-term climate simulations in the field		08/31/2006	\$436,613	\$174,645
LOF	Molecular Regulation of Breast Cancer Cell Metastasis		08/31/2006	\$633,044	\$253,217

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF	A Behavioral Gene Discovery Laboratory for Integrative Neuroscience		08/31/2006	\$883,903	\$353,562
LOF	From DNA Repair to Neural Circuits: Mechanisms of Cellular and Neurological Dysfunction		12/21/2006	\$750,000	\$211,226
LOF	Laboratory for the Development of Innovative Groundwater Remediation Strategies		12/21/2006	\$569,427	\$227,770
LOF	Exercise and Health Psychology Laboratory		12/21/2006	\$975,088	\$390,036
LOF	Ultrasound Systems Development Laboratory		12/21/2006	\$568,201	\$227,281
LOF	Novel Photocatalysis and SMB Technology Laboratory		12/21/2006	\$639,756	\$255,902
LOF	Laboratory for Neural Circuits and Cognitive Control		02/09/2010	\$795,680	\$318,272
LOF	Applied Biotechnology Laboratory		02/09/2010	\$748,685	\$299,474
LOF-1	Advanced Oxidation Process Laboratory		05/15/2007	\$528,841	\$211,536
LOF-1	Synthetic Laboratory for the Discovery of Inorganic Materials		05/15/2007	\$499,949	\$199,979
LOF-1	Ubiquitous Network Laboratory		05/15/2007	\$274,250	\$109,700
LOF-1	Laboratory for Chemistry and Materials Research under Extreme Conditions		06/26/2007	\$635,639	\$254,255
LOF-1	A Window into Planetary Interiors: A Laboratory for Extreme Temperature and Pressure Studies		06/26/2007	\$494,843	\$197,937
LOF-1	Physiological Performance of overwintering insects in a changing climate		06/26/2007	\$544,155	\$217,662
LOF-1	Biotransport and Cellular Engineering Laboratory		06/26/2007	\$503,335	\$201,334
LOF-1	Instillation of scanning tunnel microscopy system for the development of molecular surface engineering of novel microfluidics		06/26/2007	\$522,738	\$209,095
LOF-1	Laboratory To Test, Train and Protect The Brain-Heart Connection		09/04/2007	\$843,000	\$337,200
LOF-1	A laboratory for the investigation of cellular and molecular mechanisms of breast cancer metastasis		09/04/2007	\$399,558	\$159,823
LOF-1	Laboratory to Examine Auditory Cortical Function Following Cochlear Implant		09/04/2007	\$449,992	\$179,997
LOF-1	Nanobeam Materials Analyser for Probing Planetary Evolution and Resources (NanoMAPPER)		04/29/2009	\$775,128	\$310,051
LOF-1	Small Animal Image Guided Radiation Research Laboratory		04/22/2008	\$587,953	\$235,181
LOF-1	Infrastructure for highly sensitive and quantitative analysis of CD8+ T cell-mediated immunity		04/22/2008	\$497,591	\$199,036
LOF-1	Drug Level Analysis Laboratory for Personalized Medicine Research		04/22/2008	\$555,664	\$222,258
LOF-1	A Novel Centre to Study the Microenvironment as a Dynamic Regulator of Cell Phenotype		08/11/2008	\$433,965	\$173,586
LOF-1	High Throughput Nanoparticle Imaging Platform for the Non-Invasive Study of Metastasis in Cancer		08/11/2008	\$513,545	\$205,418
LOF-1	Quantitative Live-cell Fluorescence Microscopy and Digital Imaging Laboratory		08/11/2008	\$383,147	\$153,259
LOF-1	Operando Laboratory for the Analysis and Discovery of New Types of Nanomaterials		08/11/2008	\$417,865	\$167,146
LOF-1	A laboratory for investigating the role of fetal programming in Metabolic Syndrome		04/29/2009	\$720,000	\$288,000

## Institution / Établissement

Program / Programme	Project Title / Titre du projet	Principal Investigator / Chercheur principal	Ministry Decision / Décision ministère	Total Costs / Coût total	Max. ORF contribution / Contribution max. du FRO
LOF-1	Facility for Stable Isotope Analysis (FacSIA) of modern and ancient biogeochemical cycles in the global environment		06/03/2009	\$987,427	\$394,971
LOF-1	Translational Cytogenomic Infrastructure for Detection and Characterization of Chromosomal Abnormalities		11/07/2008	\$530,098	\$212,039
LOF-1	Laboratory for Studies in Language and Reading Acquisition		09/24/2009	\$74,909	\$29,963
LOF-1	Center for the Study of Biomaterials and Tissue Regeneration		04/29/2009	\$406,795	\$162,718
LOF-1	Translational Imaging Centre for Cardiovascular Outcomes Research (TRICORE)		04/29/2009	\$898,547	\$359,419
LOF-1	Research infrastructure to study rapid and repeated evolution of salmonids		09/24/2009	\$448,837	\$179,535
LOF-1	A live-cell fluorescent imaging and proteomic laboratory for studying proteins implicated in aging and neurodegenerative diseases		09/24/2009	\$423,259	\$169,304
LOF-1	Imaging Platform with Scanning Probe Microscopy: Unveiling and Manipulating Nature's Form and Function at the Nanoscale		09/24/2009	\$496,694	\$198,679
LOF-1	Development of a Quantitative Laser Imaging Platform for Plant Canopies		03/19/2010	\$688,000	\$275,200
LOF-1	Laboratory of neurochemistry of dementia		09/24/2009	\$999,750	\$398,227
LOF-1	Laboratory for the Assessment of Cardiovascular and Metabolic Phenotypes in Genetically Modified Mice.		09/24/2009	\$483,982	\$193,593
LOF-1	Center for Study of Whole Body Vibration		09/24/2009	\$628,582	\$251,423
LOF-1	Studies in behavioural genetics: infrastructure for molecular biology and genomic research		03/19/2010	\$419,359	\$167,744
LOF-1	Cellular Reprogramming Laboratory to Evaluate Epigenetic Programming Events during Development and in the Generation of Induced Pluripotent Stem Cells		03/19/2010	\$532,633	\$208,254
LOF-1	Laboratory for Multifunctional Nanocomposites		03/19/2010	\$540,855	\$216,342
LOF-1	Investigating the molecular and cellular basis of infertility and ovarian cancer using biologically-relevant model systems		05/10/2010	\$751,808	\$300,723
LOF-1	A novel high speed optical flow measurement system		03/19/2010	\$502,972	\$201,189
LOF-1	The CulturePlex: A Lab for the Study of Cultural Complexity		03/19/2010	\$507,962	\$200,105
LOF-1	Physical Human Robot Interactions Laboratory		05/10/2010	\$427,055	\$170,822
LOF-1	Mammalian Embryonic Stem Cell Laboratory for the development of controlled differentiation strategies		05/10/2010	\$486,282	\$194,513
LOF-1	Salivary Proteomics Research Laboratory		08/04/2010	\$530,147	\$212,059
LOF-1	Somatic Stem Cell Selection Laboratory for the Regeneration of Beta Cell and Vascular Function.		08/04/2010	\$682,386	\$272,955
LOF-1	Development of New Therapies for Stroke and Alzheimer's Disease: Fluorescence, Phosphoimaging and Behavioral Equipment Suites		05/10/2010	\$1,000,000	\$400,000
LOF-1	Computational Geophysics Laboratory at Western		02/09/2010	\$349,866	\$139,946
LOF-1	Groundwater-Coastal Water Interactions Laboratory		06/28/2011	\$557,454	\$222,982
LOF-1	Peptide-Based Molecular Imaging Agents		06/28/2011	\$702,956	\$281,183
LOF-2	Laboratory for Biomaterials Research		05/15/2007	\$517,342	\$206,937
LOF-2	Developmental Cognitive Neuroscience Laboratory for the study of Numerical Cognition		06/26/2007	\$261,490	\$104,596

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-2	Landscape Genetics Laboratory		06/26/2007	\$578,711	\$231,484
LOF-2	32 Receiver Channel Upgrade for Parallel Magnetic Resonance Research		05/15/2007	\$634,900	\$253,960
LOF-2	Human Orthopaedic Biomechanics: Studies to Assess Implant Fixation & Load Transfer, Osteotomy & Fracture Fixation, Spine Loading, and Impact Injury Limits		04/22/2008	\$430,949	\$172,380
LOF-2	Environmental Exposure Monitoring Systems for Health and Equity Research		06/26/2007	\$326,090	\$130,436
LOF-2	Innovative Laboratory for Luminescent Mapping of Insitu NAPL And Technology Evaluation Geoenvironmental Research Facility		06/26/2007	\$649,140	\$259,656
LOF-2	Catchment Research Facility: Tracking water and nutrient flows in forests in natural and controlled biomes under changing environmental conditions		09/04/2007	\$590,813	\$236,325
LOF-2	Engineering Seismology Toolbox		09/04/2007	\$465,930	\$186,372
LOF-2	Laboratory for Emerging Communications Systems		09/04/2007	\$433,616	\$173,446
LOF-2	An Integrated System for Real-Imaging, In-Situ Growth and In-situ Properties of Nanomaterials		04/22/2008	\$846,321	\$299,499
LOF-2	Characterization, Manipulation and Molecular Recognition: Imaging and Spectroscopy of Meso- and nanostructured Materials		08/11/2008	\$655,752	\$262,301
LOF-2	Molecular and Behavioural Genetics Laboratory		04/29/2009	\$408,325	\$163,330
LOF-2	Chromosomal and point mutation discovery and interpretation in the post-genome sequencing era: tools for bioinformatic and genomic analysis		04/29/2009	\$935,156	\$374,063
LOF-2	The Nano-Optoelectronics Shop – Small scale solution processing and in situ electronic and optical imaging at the quasimolecular level		09/24/2009	\$648,123	\$259,249
LOF-2	Protein Isolation/Purification and Cell culture/Microscopy Suites		03/19/2010	\$400,415	\$160,166
LOF-2	An inductively-coupled plasma mass spectrometer and other isotopic tools to study the interactions of carbon and trace metal biogeochemistry in the environment		08/04/2010	\$526,209	\$210,483
LOF-4	Facility for advanced biomedical device design and fabrication		08/04/2010	\$1,564,058	\$605,623
NIF	AFAR: Advanced Facilities for Avian Research Infrastructure for Studies of Avian Physiology, Neurobiology and Behaviour		03/15/2007	\$9,226,432	\$3,690,573
NIF	Regional Facility for Research on Materials at Extreme P,T Conditions		03/15/2007	\$1,299,558	\$519,823
NIF	The Wind Engineering, Energy, and Environment (WindEEE) Dome		06/28/2009	\$23,690,970	\$9,476,388
NIF	Capacities for a Sustainable Archaeology		06/28/2009	\$9,777,644	\$3,911,058
NOF	Establishment of state-of-the-art cardiovascular tissue engineering laboratory.		02/24/2005	\$498,787	\$199,513
NOF	Crystallographic studies of key proteins in translesion DNA replication and mutagenesis		02/24/2005	\$599,979	\$240,000
NOF	Infant Hearing Aid Technology Laboratory		07/22/2005	\$175,069	\$70,009
NOF	Laboratory for the study of Radiation Induced Chemical Processes and Transport.		02/24/2005	\$737,588	\$295,035
NOF	Mechanisms of Neurodegeneration in Alzheimer's Disease and Neuronal Injury.		02/24/2005	\$650,016	\$260,006



<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
NOF	Regulation of DNA Processing Events		\$613,730	\$239,736
NOF	Mutation Load Index: Critical parameters of DNA damage relevant to aging, cancer and neurodegeneration		\$582,815	\$204,875
NOF	Infrastructure for the study of naturally disordered proteins and diseases		\$455,612	\$182,245
NOF	Advances in the use of robotics and minimal invasive technology in the treatment of heart disease		\$348,421	\$136,258
NOF	Laboratory for Image-based 3D Modeling Technologies		\$545,990	\$218,396
NOF	An Applied Research Laboratory for Aging and Community Health		\$319,656	\$127,863
NOF	A State-of-the-art Computer Controlled Triaxial Stress-Path Apparatus for Geotechnical Engineering Research		\$290,712	\$116,286
NOF	Molecular and Cellular Mechanisms of the Innate Immune Response in the Development of Type 1 Diabetes		\$648,056	\$256,063
NOF	Advanced cellular and molecular studies of Connective tissue growth factor action on fibroblasts		\$475,156	\$190,062
NOF	Laboratory for multidisciplinary measurements of human performance		\$312,627	\$125,051
NOF	A Facility for the Advancement of Musculoskeletal Health Research		\$762,147	\$304,859
NOF	A novel cell therapeutic approach to induce tolerance in xenotransplantation		\$482,788	\$193,116
NOF	Creating complex soil loading states to stimulate realistic geotechnical processes		\$507,780	\$203,112
NOF	Carbon NanoStructured Material Fabrication Laboratory (CNSMFL)		\$479,139	\$190,506
NOF	Meteoroid Environment Optical Research Observing Stations		\$557,840	\$223,136
NOF	Laboratory for Asymmetric Catalysis Research		\$408,441	\$163,375
NOF	Simulation/Modeling Laboratory for High-Speed Electronic Circuits and MEMS		\$327,830	\$131,133
NOF	Systematic Evaluation of Assisted Reproduction		\$500,041	\$200,000
NOF	Novel Transplantation Models to Study the Mechanisms of Graft Protection		\$154,888	\$61,955
NOF	Laboratory fo Advanced Digital Signal Processing Research (LASPR)		\$385,475	\$154,079
NOF	Genetic, Molecular and Physiological Basis of Mental Retardation		\$636,130	\$254,452
NOF	An Applied Data Research Facility for the Understanding, Prevention and Treatment of Kidney Diseases		\$498,497	\$199,252
NOF	An "Experience Sampling" Social Cognitive Neuropsychological Facility for the Study of Maladaptive Behavioural Consequences of Alcohol Use		\$203,969	\$81,587
NOF	Genetic Applications to the Study of Mouse Models of Human Disease		\$561,429	\$224,571

### ***Trent University***

***Total: 18 \$19,404,149 \$5,275,295***

IF	DNA and Forensic Science Research Centre		\$8,702,023	\$1,082,184
LEF	Upgrading and Expansion of the Trent University Worsfold Water Quality Centre and Isotope Ratio Facility		\$3,166,902	\$1,266,760

<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
LOF	Laboratory For Coherent Control of Novel Molecular States			
		08/31/2006	\$256,592	\$102,637
LOF	The Synthesis, Characterization and Identification of Atmospheric Pollutants and Degradation Products in the Canadian Troposphere			
		08/31/2006	\$482,833	\$191,533
LOF-1	Plant Pathogen Forensics-DNA:DNA hybridization platforms for species discrimination and strain identity for Forensic analysis and pathogen tracking			
		04/22/2008	\$352,747	\$139,557
LOF-1	A Cognitive Science Laboratory for Studying Reading as an Embodied Process			
		04/29/2009	\$166,964	\$58,036
LOF-1	Hydrogeochemical Laboratory for Model Input Parameters (MIPS Laboratory)			
		11/07/2008	\$215,000	\$86,000
LOF-1	Equipment for the high-throughput analysis of the evolution of range limits			
		04/29/2009	\$142,298	\$46,474
LOF-1	Discovering how action drives perception and cognition			
		08/04/2010	\$199,297	\$79,719
LOF-1	Coupling Genetic Characterizations of Pathogens and Disease Vectors Towards Understanding Patterns of Wildlife Disease Maintenance and Spread			
		08/04/2010	\$225,869	\$89,728
LOF-2	Establishment of a CRC in DNA Profiling, Forensics and Functional Genomics			
		06/26/2007	\$230,000	\$80,000
LOF-2	Biogeochemical laboratory for trace metal speciation in aquatic environments: role of dissolved organic matter			
		06/26/2007	\$418,504	\$167,383
NIF	The Microenvironment Laboratory at Trent University			
		03/15/2007	\$3,238,095	\$1,291,325
NOF	Infrastructure for the establishment of an ecological and evolutionary physiology laboratory			
		07/22/2005	\$232,298	\$91,000
NOF	Establishment of an AAS and CNS facility for forest biogeochemistry research			
		07/22/2005	\$217,230	\$86,892
NOF	Global change of aquatic ecosystems laboratory and field studies			
		10/24/2005	\$333,163	\$132,591
NOF	Establishment of a Confocal Microscopy Facility for Studying Poxvirus Replication			
		02/24/2005	\$451,349	\$155,539
NOF	Establishment of a Bioarchaeology Laboratory			
		02/24/2005	\$372,985	\$127,937

### ***University Health Network***

***Total: 12 \$144,794,370 \$42,780,541***

IF	Research Program in Immune Tolerance in Transplantation (RITT)			
		12/16/2004	\$10,679,890	\$1,328,151
IF	Canadian Molecular Cytogenetics Platform			
		12/16/2004	\$1,736,485	\$215,949
IF	Spatio-Temporal Targeting and Amplification of Radiation Response (STTARR) Innovation Centre			
		12/16/2004	\$9,830,995	\$1,210,389
IF	Advanced Medical Discovery Institute: Genomic Instability and Cancer Cell Survival			
		12/16/2004	\$25,000,000	\$3,109,000
LEF	Cancer Stem Cell Centre			
		03/15/2007	\$10,732,672	\$4,293,069
LEF	Disease genomics: reduction to practice			
		03/15/2007	\$12,000,000	\$4,800,000
LEF	The Ontario Regional Center for Cell and Vector Production (CCVP)			
		06/28/2009	\$18,443,818	\$7,377,525
NIF	The Electronic Living Laboratory for International Cancer Survivorship Research: Bridging the Gap for Chronic Cancer Care			
		03/15/2007	\$3,316,909	\$1,200,000
NIF	The Regenerative Medicine Project (The REMEDI Project)			
		03/15/2007	\$18,000,000	\$7,200,000

<b><i>Institution / Établissement</i></b>			<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>			
NIF	Comprehensive systems biology approach to profiling and modeling of cancer; A collaborative infrastructure for integrated translational research.		03/15/2007	\$12,492,753	\$4,001,041
NIF	NanoMed Fab: A nanofabrication centre for personalized medicine		06/28/2009	\$6,530,679	\$2,486,515
NIF	Robotic Positioning for Image-guided Surgery and Radiation Therapy		06/28/2009	\$16,030,169	\$5,558,902

### ***University of Guelph***

***Total: 124 \$140,868,105 \$38,831,814***

CRCIF	An Integrated Laboratory Complex for the Analysis of Animal Behavioural Biology		02/24/2005	\$314,859	\$123,138
CRCIF	Cytometry In Animal Health Research		10/24/2005	\$313,237	\$125,000
CRCIF	To establish a media-enhanced setting for the research Institute of Critical Studies in Canadian Literature		10/24/2005	\$308,812	\$123,525
CRCIF	Infrastructure in Behavioural Neuroscience		08/31/2006	\$1,056,984	\$422,793
CRCIF	From local observations to global models: Infrastructure for studying ecological change.		12/21/2006	\$305,240	\$122,095
CRCIF	A set up for the study of protein-based nanoparticles and their functionality		12/21/2006	\$324,575	\$98,911
CRCIF	State-of-the-Art Facility for the Characterization of Manipulation of Soft Matter at Interfaces.		12/21/2006	\$335,949	\$134,379
IF	Membranes and surfaces in diseases and natural environments - state-of-the-art facilities for biophysical research.		12/16/2004	\$18,274,154	\$2,272,574
IF	A Public Use Microdata Sample of Households in the 1891 Canadian Census: Quebec, the Maritime Provinces and the West		12/16/2004	\$766,070	\$95,269
IF	Applied Evolution: The Fusion of Genomics and Ecology		12/16/2004	\$10,096,849	\$1,255,644
LEF	Enhancement of infrastructure for bio-electrochemical and soft materials research		03/15/2007	\$6,992,603	\$2,797,041
LEF	Canadian Writing Research Collaboratory		06/28/2009	\$2,987,786	\$34,800
LEF	Centre for Biodiversity Genomics		06/28/2009	\$18,463,701	\$7,240,524
LOF	Pattern formation in the cerebellum: deciphering the stripes.		08/31/2006	\$312,266	\$124,906
LOF	Laboratory for the Development of New Analog Integrated Circuits and Microsystems		08/31/2006	\$339,413	\$135,004
LOF	Development of a comparative epilepsy program		08/31/2006	\$202,090	\$80,836
LOF	Acquisition of a Confocal Laser Scanning Microscope for live imaging of sub-cellular responses to environmental stimuli		08/31/2006	\$310,963	\$124,385
LOF	Infrastructure for establishment of a Body Composition and Energy Metabolism (BCEM) Laboratory.		08/31/2006	\$398,985	\$159,594
LOF	Presynaptic Modulation of Neurotransmission		08/31/2006	\$311,931	\$124,773
LOF	Sustainable Pest Management in Field and Horticultural Crops		12/21/2006	\$950,704	\$380,282
LOF	Enhanced Infrastructure for Multi-Media Information and Communication Research for Rural Development		08/31/2006	\$110,032	\$44,013
LOF	Integrated Venous Function In Chronic Heart Failure		12/21/2006	\$317,069	\$126,828
LOF	Facility for nutraceutical encapsulation and performance research		12/21/2006	\$317,112	\$126,045

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF	Microneurography facility for the investigation of spinal circuitry in the human related to movement and balance		12/21/2006	\$216,323	\$86,529
LOF	Research setup for active food packaging systems, biodegradable material forming, and food-packaging interaction.		12/21/2006	\$211,044	\$84,418
LOF	Tissue, Cell, and Protein Dynamics Laboratory		12/21/2006	\$630,798	\$252,319
LOF	The Guelph High Efficiency Gamma-Ray Spectrometer for Beta-Decay Experiments		12/21/2006	\$445,909	\$149,364
LOF	Canada's first state-of-the-art, one micron nuclear microprobe		12/21/2006	\$367,595	\$145,795
LOF-1	Centre for Organizational Studies		05/15/2007	\$533,681	\$213,473
LOF-1	Infrastructure for the study of gut microbial communities		08/11/2008	\$493,832	\$148,149
LOF-1	Public Use Microdata Samples of the 1871 Census of Canada and the 1871 Census of Scotland		09/04/2007	\$625,000	\$250,000
LOF-1	Genomic Diversity Laboratory		06/26/2007	\$625,959	\$249,586
LOF-1	Protein Structural Biology Facility		05/15/2007	\$626,683	\$250,672
LOF-1	Integrated program for studies on turfgrass physiology, integrated pest management and soil microbiology for the purpose of developing environmentally sound urban landscape systems		05/15/2007	\$617,361	\$246,945
LOF-1	Infrastructure to Support Strain Measurements in Orthopaedic Soft Tissue		05/15/2007	\$320,348	\$127,953
LOF-1	Infrastructure for the study of diversity in cryptic plants and the development of modern molecular taxonomic tools		06/26/2007	\$310,300	\$124,119
LOF-1	Starch Biology Laboratory		06/26/2007	\$308,572	\$123,429
LOF-1	Genetic determinants of infectious disease susceptibility in swine		06/26/2007	\$288,603	\$115,141
LOF-1	Usability and Testing of Context Aware and Adaptive System		06/26/2007	\$160,057	\$64,023
LOF-1	System-Based Approaches to Optimize Nutrient Use Efficiency in the Agro-Ecosystem		08/11/2008	\$313,049	\$125,219
LOF-1	Laboratory for Integrated Study of Vascular Cell Biology		11/07/2008	\$313,809	\$121,799
LOF-1	Wireless Computing Laboratory		04/22/2008	\$294,072	\$114,687
LOF-1	High performance computing laboratory to support research in epidemiology and disease surveillance related to human and animal health		04/22/2008	\$189,907	\$75,963
LOF-1	Laboratory for Organic Layered Material Growth and Synchrotron Radiation-based Structural Studies		09/04/2007	\$379,440	\$148,350
LOF-1	Integrated Digital Concept Mapping for Translation between Aboriginal Traditional Knowledge and Western Science in Resource Management		09/04/2007	\$145,362	\$58,144
LOF-1	Raman Spectrometer and High-Pressure Apparatus for Aqueous Chemistry under Sub-Critical and Super-critical Conditions		09/04/2007	\$689,504	\$171,330
LOF-1	Guelph Wind Engineering Laboratory		08/11/2008	\$302,991	\$121,197
LOF-1	Aquatic Metacommunity Dynamics Laboratory		04/22/2008	\$162,340	\$63,099
LOF-1	Infrastructure to assess microbial biofilm contamination of drinking water distribution systems		04/22/2008	\$310,875	\$124,350

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-1	Superconducting Quantum Interference Device (SQUID) Magnetometer for the Characterization of Molecule-Based Magnetic Materials		04/29/2009	\$623,144	\$249,258
LOF-1	Advanced Digital Audio Production and Performance Studio		08/11/2008	\$315,746	\$126,298
LOF-1	An integrated animal science laboratory complex for the University of Guelph, Kemptville Campus		08/11/2008	\$620,918	\$248,367
LOF-1	Infrastructure to support lipidomics research		11/07/2008	\$318,863	\$126,318
LOF-1	Infrastructure for the study of the neural bases of memory in rodents		11/07/2008	\$789,804	\$315,922
LOF-1	Pervasive and Wireless Networking Research Laboratory		11/07/2008	\$254,508	\$101,804
LOF-1	High-Performance Computing Facility for Studies of the Dynamics of Self-Assembling Block Copolymers		04/29/2009	\$314,380	\$120,376
LOF-1	Postharvest Biochemistry of Horticulture Quality		06/03/2009	\$313,107	\$125,242
LOF-1	A novel approach to the determination of anesthetic efficacy in animals		04/29/2009	\$180,888	\$72,356
LOF-1	Infrastructure for studies of grasslands, species loss, and global environmental change		04/29/2009	\$245,230	\$98,091
LOF-1	Remote Tracking Laboratory for Migratory Animals		04/29/2009	\$301,162	\$120,464
LOF-1	Signaling in Marine Ecosystems		04/29/2009	\$326,476	\$125,000
LOF-1	Model-based clustering with applications in bioinformatics and food authenticity		06/03/2009	\$330,305	\$118,362
LOF-1	Laboratory and Field Equipment for Investigations of Organic Chemical Contamination in Fractured Rock Beneath Industrial Sites		04/29/2009	\$525,845	\$188,200
LOF-1	Digital Haptic Lab		05/10/2010	\$385,738	\$154,295
LOF-1	Zebrafish Laboratory for Development and Disease		06/03/2009	\$318,648	\$126,134
LOF-1	A Centre for Cognitive-Affective Neuroscience		06/03/2009	\$409,712	\$163,885
LOF-1	Discovery and Development of Biomaterials		06/03/2009	\$1,196,799	\$463,796
LOF-1	Field data acquisition, integration and communication infrastructure for studying adaptation in action		08/04/2010	\$173,031	\$69,213
LOF-1	Ecological studies of wildlife reservoirs of emerging zoonotic diseases		09/24/2009	\$219,023	\$87,609
LOF-1	Integrative Neurophysiology Laboratory		09/24/2009	\$311,428	\$124,571
LOF-1	Single-crystal X-ray Diffractometer		03/19/2010	\$414,236	\$165,694
LOF-1	Research Facility on Women's Health and Wellbeing		03/19/2010	\$213,652	\$85,460
LOF-1	Peat resources, boreal ecosystem health and terrestrial carbon cycling under a changing climate		09/24/2009	\$441,131	\$176,453
LOF-1	Infrastructure to support Nutrigenomics Research		05/10/2010	\$317,519	\$125,822
LOF-1	Infrastructure for the Study of Oncogenic Betaretroviruses		03/19/2010	\$313,921	\$120,711
LOF-1	A high-performance computer facility to support research into the genealogical and physiological basis of multivariate trait variation and evolution		03/19/2010	\$352,279	\$126,866
LOF-1	Multi-species comparative cancer genetics		03/19/2010	\$311,253	\$117,954
LOF-1	Infrastructure to support mitochondrial research in the context of health and disease		05/10/2010	\$314,606	\$124,902

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-1	Laboratory for high-resolution macromolecular and cellular imaging		08/04/2010	\$312,483	\$124,993
LOF-1	Comparative Regeneration and Development Laboratory (CRDL)		05/10/2010	\$306,053	\$122,421
LOF-1	Laboratory for integrated study of the mechanisms of breast cancer invasion and metastasis		08/04/2010	\$312,723	\$121,232
LOF-1	Motion platform for the study of postural control related to the problem of falls and mobility		08/04/2010	\$314,413	\$125,000
LOF-1	People in Motion: Historical Data Infrastructure for Longitudinal Research		08/04/2010	\$937,056	\$374,821
LOF-1	Advanced Membrane Bioreactor (MBR) Process Lab for Wastewater Treatment, Reuse, and Energy Recovery		06/28/2011	\$311,944	\$124,681
LOF-1	Characterizing flavours in foods		06/28/2011	\$310,768	\$124,307
LOF-1	Integrative & Innovative Biodiversity Analysis from the Tundra to the Tropics		06/28/2011	\$937,299	\$374,919
LOF-2	Computational Biomathematics Laboratory: Workstations and Compute Server		05/15/2007	\$300,969	\$119,014
LOF-2	Public Policy in Criminal Justice		08/11/2008	\$253,608	\$101,443
LOF-2	Microbiological evaluation of emerging bacterial diseases		09/24/2009	\$305,643	\$122,258
LOF-2	Integrated environmental geochemistry and biogeochemistry laboratory		09/24/2009	\$449,141	\$179,656
LOF-2	The Guelph Spectrometer for Internal Conversion Electrons (SPICE)		03/19/2010	\$312,208	\$124,854
LOF-2	Re•visioning Differences Media Arts Laboratory (REDLAB): Exploring the Impact of Culture, Creativity, and the Arts on Social Inclusion and Health Equity		08/04/2010	\$325,721	\$130,289
LOF-2	Adipose Tissue Signaling and Metabolism Laboratory		08/04/2010	\$308,246	\$120,305
LOF-3	Establishing a Virtual Reality Lab to Study Risk Factors for Child Pedestrian Injury and 'Best Practices' for Prevention		06/03/2009	\$311,408	\$124,563
NIF	An Innovative Neutron Detector Array for Nuclear Physics Experiments		03/15/2007	\$1,792,415	\$665,914
NIF	The Brockhouse X-Ray Diffraction and Scattering Sector at the Canadian Light Source		03/15/2007	\$27,837,504	\$5,200,046
NIF	Cutting-edge technologies in life-science research: Dynamic Nuclear Polarization NMR and advanced Mass Spectrometry		06/28/2009	\$8,837,305	\$1,820,581
NIF	Centre for Public Health and Zoonoses		06/28/2009	\$2,547,090	\$1,018,836
NOF	Ecology, Traceability and Detection of Foodborne Pathogens in Food Production and Processing Chains.		02/24/2005	\$182,545	\$73,017
NOF	Infrastructure to study the mechanisms regulating nutrient utilization in ruminants		07/22/2005	\$312,311	\$124,925
NOF	Manipulation of myoblast and fibroblast cell expression by mechanotransduction.		02/24/2005	\$267,714	\$107,085
NOF	Comparative Proteomics of Yeast Fermentation		02/24/2005	\$314,808	\$125,000
NOF	Cryptosystems Security Research Laboratory at the University of Guelph.		02/24/2005	\$313,904	\$118,542
NOF	Development of tools and technologies for sustainable wastewater reuse.		02/24/2005	\$317,518	\$125,000
NOF	Laboratory for the study of molecular endocrinology and immunology in poultry		07/22/2005	\$311,568	\$124,627



<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>	
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>			
NOF	Social and legal responses to violence in Canada.		02/24/2005	\$233,434	\$93,373
NOF	Development of a Paleoecology / Paleoclimatology Laboratory		10/24/2005	\$319,051	\$127,621
NOF	Computer Intensive Methods for Labor and Applied Welfare Economics		07/22/2005	\$176,333	\$70,533
NOF	The impact of maternal history of maltreatment on the mother-child attachment relationship and children's socio-emotional development		07/22/2005	\$271,682	\$108,672
NOF	Studies on behaviour, motivation, and satisfaction of international tourists.		10/24/2005	\$150,422	\$60,169
NOF	Infrastructure for an Integrative Nutritional Sciences and Metabolic Physiology Laboratory: Establishment of a Metabolic Biomarker and Adipokine Facility		07/22/2005	\$291,527	\$116,611
NOF	Department of Mathematics and Statistics at University of Guelph – High Performance Computing Project (MS-HPC)		10/24/2005	\$831,467	\$268,996
NOF	Soil moisture observation networks for hydrologic model development, drought monitoring and satellite calibration		10/24/2005	\$371,088	\$148,436
NOF	Development of tools and technologies for water resources management and planning.		10/24/2005	\$309,033	\$123,613
NOF	Infrastructure for study of host-pathogen interactions		10/24/2005	\$306,018	\$121,296
NOF	Infrastructure For The Synthesis and Structural Characterization of DNA Adducts		10/24/2005	\$324,119	\$125,000
NOF	Mass spectrometry platform for the comprehensive chemical analysis of complex mixtures in environmental and biological samples		10/24/2005	\$565,287	\$176,252
NOF	High Brilliance Small Angle X-Ray Scattering Beamline		10/24/2005	\$323,915	\$125,000
NOF	Carbohydrate Structural Analysis		07/22/2005	\$198,618	\$79,448
NOF	An Integrated set-up for the Metabolic Profiling of Wine Lactic Acid Bacteria and Yeast and the Bio-Chemical Grape and Wine Characterization		02/24/2005	\$412,284	\$160,014
NOF	Equipment for the Study of Visio-Locomotor Control in Complex Environments Across the Lifespan		02/24/2005	\$194,614	\$77,846
NOF	Infrastructure for the Investigation of Sickness Behaviour in Swine		02/24/2005	\$164,266	\$65,707
NOF	Integrated facility for studies on microbial ecology, biogeochemistry and bacteria-mineral interactions in soils and sediments, with applications to environmental protection.		02/24/2005	\$623,431	\$249,370
NOF	Development of Farm Animal Models for Testing and Amelioration of Hormonal Treatments in Women: Influences on Ovarian Function and Consequences for Fertility		06/26/2006	\$309,001	\$117,693

<b><i>University of Ontario Institute of Technology</i></b>		<b><i>Total: 18</i></b>	<b><i>\$4,222,505</i></b>	<b><i>\$1,235,055</i></b>
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CRCIF	Development of Continuous-flow Wet-laboratory and Controlled Temperature Room Facilities for the Investigation of Pulse-exposure Effects of Contaminants on Aquatic Organisms and Biomarker Validation		02/24/2005	\$794,296	\$125,000
LOF	Facility for Nematode Ion Channel Research		12/21/2006	\$130,538	\$38,129
LOF-1	Advanced Wireless Communications and Networking Research Laboratory		06/26/2007	\$232,419	\$85,460
LOF-1	Electrochemical Materials Research Lab		06/26/2007	\$125,669	\$39,442

<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
LOF-1	Laboratory for Advanced User Interfaces and Virtual Reality		\$209,401	\$59,607
LOF-1	Research Center for Mobile Healthcare Service Assurance and Privacy		\$150,319	\$54,459
LOF-1	Bacterial Membrane Transport Laboratory		\$77,611	\$30,000
LOF-1	A Reconfigurable Motion Base Vehicle Simulator		\$190,018	\$73,000
LOF-1	Materials Science Characterization Laboratory		\$86,549	\$32,000
LOF-1	Chemical Biology Research Laboratory		\$145,598	\$45,000
LOF-1	Establishing the UOIT Security Testing Facility		\$85,148	\$32,392
LOF-1	The effect of altering afferent input from the spine and limbs on central sensorimotor integration		\$128,384	\$49,065
LOF-2	Health Informatics Laboratory		\$361,000	\$97,310
LOF-2	Development of a decomposition chemistry laboratory and geoforensic research facility		\$349,207	\$125,000
LOF-2	Experimental Facility for Advanced Energy Systems		\$360,045	\$125,000
LOF-2	Experimental Facility for Advanced Manufacturing Robotic Systems Research		\$256,980	\$87,091
NOF	Computational Science and Visualization Laboratory (CSVL)		\$147,489	\$50,000
NOF	Centre for Engineering Design, Automation, and Robotics (CEDAR)		\$391,834	\$87,100

### ***University of Ottawa***

***Total: 147 \$130,311,651 \$43,006,430***

CRCIF	Molecular and Cell Biology of Hypertension		\$325,000	\$130,000
CRCIF	Contemporary Globalization and Health Equity		\$312,000	\$124,800
CRCIF	Regulation of Gene Expression		\$300,000	\$120,000
CRCIF	Advancing proteomics to systems biology -New approaches for the studies of colorectal cancer progression		\$632,113	\$211,717
CRCIF	Quantitative Systems Biology Laboratory		\$349,777	\$139,591
CRCIF	Centre d'analyse et de recherche sur les réformes politiques et administratives (CARPA)		\$109,448	\$43,779
CRCIF	The Electronic Health Record Laboratory		\$321,945	\$125,000
CRCIF	Canada Research Chair in Patient Safety and Quality Improvement		\$312,526	\$125,000
CRCIF	Human Genome Epidemiology		\$303,358	\$121,332
CRCIF	Yeast Functional and Chemical Genomics Screening Facility		\$423,594	\$169,438
CRCIF	Gender and Migration Population Health Laboratory		\$234,647	\$93,859
CRCIF	Femtosecond laser processing of materials on sub-micron dimensions		\$532,500	\$165,000
CRCIF	High Performance Computing Hardware and Software for Computer Aided Design and Molecular Simulation of Catalysis		\$370,523	\$124,178
CRCIF	The Role of Arginine Methylation in RNA Metabolism and Diseased States.		\$320,644	\$128,172
CRCIF	The Role of Chromatin Structure in Establishing the Myogenic Program		\$610,658	\$144,951

## Institution / Établissement

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
CRCIF	Law and Occupational Health and Safety Laboratory		06/26/2006	\$246,794	\$98,250
CRCIF	Laboratory Facilities for Quantitative Genetic Analyses and Experimental Evolution of Chemical Signaling Systems In Drosophila		10/24/2005	\$253,872	\$100,513
CRCIF	High-Throughput DNA Sequencing for Microarray Studies of Gene Expression in Marine and Freshwater Fish Species		10/24/2005	\$489,144	\$104,000
CRCIF	The application of high-throughput genomic technology to the study of the signalling mechanisms that govern programmed cell death (apoptosis)		06/26/2006	\$470,137	\$180,633
CRCIF	Starting equipment CRC Metzler		08/31/2006	\$11,852	\$4,740
CRCIF	Bone Health Research Laboratory		12/21/2006	\$251,586	\$100,000
CRCIF	CRC Chair in the Contextualising of Religion in a Diverse Canada		12/21/2006	\$62,932	\$25,173
IF	Accelerated Discovery of Advanced Catalysts and Catalytic Processes		12/16/2004	\$19,306,758	\$2,400,579
LEF	Cardiovascular PET Molecular Imaging Program		03/15/2007	\$8,332,831	\$3,265,852
LEF	Canadian Accelerator Mass Spectrometry (AMS) Facility		06/28/2009	\$21,033,711	\$8,033,983
LOF	Toward New Synthetic Methods Involving Photochemistry and Transition-Metal Catalysis; Development of Enantioselective Variants; Application to the Synthesis of Bioactive Natural Products		08/31/2006	\$399,960	\$159,984
LOF	Marine Minerals Research Laboratory		08/31/2006	\$250,842	\$100,336
LOF	Laboratory for Integrative Microbiology		08/31/2006	\$347,998	\$139,199
LOF	Title: Laboratory for the quantitative analysis of morphogenesis		08/31/2006	\$250,346	\$100,000
LOF	Computing infrastructure supporting theoretical developments in molecular evolution, genomics and bioinformatics		08/31/2006	\$150,962	\$41,062
LOF	Bioimaging laboratory		08/31/2006	\$283,398	\$113,359
LOF	Laboratory for Sensorimotor Neuroscience		08/31/2006	\$388,941	\$130,508
LOF	Knowledge Discovery and Data Mining Laboratory at the School of Management, University of Ottawa		08/31/2006	\$39,102	\$15,085
LOF	Mechanisms of Pseudomonas aeruginosa Biofilm-specific Resistance to Antibiotics		08/31/2006	\$310,493	\$124,191
LOF	Infrastructure for Smart Autonomous Mobile Robots for Rescue Missions (SAMRRM)		12/21/2006	\$179,281	\$62,864
LOF	Establishment of an experimental embryology, microscopy and electrophysiology laboratory to study the molecular basis of congenital neuronal defects and stroke recovery.		08/31/2006	\$350,000	\$140,000
LOF	High throughput screening to identify novel oncolytic viruses and mechanisms of therapeutic action		08/31/2006	\$493,750	\$140,000
LOF	Research Facility for the "Aging and Movement" research program		08/31/2006	\$270,114	\$108,045
LOF	Brain and Language Laboratory		12/21/2006	\$356,085	\$142,304
LOF	Laboratory for Cryospheric Research		12/21/2006	\$514,571	\$205,829
LOF	Laboratory for human embryonic stem cell research and regenerative medicine		12/21/2006	\$349,990	\$139,998
LOF	The Research Unit on Childhood Hearing Impairment		12/21/2006	\$467,509	\$126,351

## Institution / Établissement

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF	A multimedia centre for research in counsellor supervision training.		12/21/2006	\$125,875	\$50,350
LOF	Equipment for studying cannabinoid receptor coupling with opioid and dopamine receptors		12/21/2006	\$452,050	\$170,000
LOF	Fermentation of Recombinant Organisms for the Production of Functional Proteins		12/21/2006	\$169,033	\$64,109
LOF-1	University of Ottawa's Faculty of Education Innovation in eLearning Research Laboratory: Demonstrations of the Possible		05/15/2007	\$100,000	\$40,000
LOF-1	Emerging Technologies and Innovation Management (ETIM) Laboratory		05/15/2007	\$59,090	\$23,636
LOF-1	fMRI and MR Perfusion Improvements with an 8 Channel Phased Array Head Coil		05/15/2007	\$242,486	\$97,138
LOF-1	Childhood Obesity Research Unit (CORU)		05/15/2007	\$291,759	\$103,478
LOF-1	Facilities for Bioprocess Engineering Studies		05/15/2007	\$127,465	\$50,985
LOF-1	Laboratory for optical metro edge and access networks		05/15/2007	\$165,021	\$62,863
LOF-1	Evolution of animal energetics laboratory		09/04/2007	\$255,035	\$102,014
LOF-1	Spectral Probes of Semiconductor Nanosystems		06/26/2007	\$161,879	\$64,625
LOF-1	Laboratory for Functional Proteomics and Chromosome Dynamics		06/26/2007	\$265,054	\$106,025
LOF-1	MET Research: Computing Laboratory to Support Clinical Decision Making at the Point of Care in the Emergency Department		09/04/2007	\$261,041	\$103,900
LOF-1	Molecule-Based Magnetic Materials		04/22/2008	\$562,500	\$225,000
LOF-1	e-Marketplaces for Safe and Fair Trade (e-MP) Laboratory		09/04/2007	\$97,705	\$39,080
LOF-1	Functional genomic laboratory for the interdisciplinary study of the transcriptional control of muscle development.		09/04/2007	\$273,670	\$105,178
LOF-1	Protection of critical infrastructure against blast hazard		09/04/2007	\$490,000	\$196,000
LOF-1	Sound Patterns Laboratory		08/11/2008	\$278,099	\$107,933
LOF-1	State-of-the-art Solid-State NMR Spectrometer		04/22/2008	\$625,000	\$250,000
LOF-1	Perinatal Health Research: Effectiveness and efficiency of health care services in Ontario and beyond		11/07/2008	\$145,304	\$58,121
LOF-1	Laboratory for molecular systematics		08/11/2008	\$224,675	\$89,683
LOF-1	Pediatric Bone Health		04/22/2008	\$252,587	\$100,000
LOF-1	Laboratory for neurobiology and cell physiology		04/22/2008	\$249,712	\$99,885
LOF-1	Computational statistics and machine learning for functional genomics data integration and analysis		04/22/2008	\$57,721	\$23,088
LOF-1	Translational Strategies for Vascular Repair and Regeneration		08/11/2008	\$793,126	\$294,000
LOF-1	Gordon F. Henderson Chair Laboratory in Globalization and Human Rights		08/11/2008	\$237,452	\$94,376
LOF-1	Neuromuscular and Rehabilitation Research Unit (NRRU)		08/11/2008	\$746,490	\$297,871
LOF-1	Establishment of Facilities for the Study of Mechanisms for Neuroprotection and Neuroregeneration following Cavernous Nerve Injury		08/11/2008	\$166,666	\$66,666

## Institution / Établissement

Program / Programme	Project Title / Titre du projet	Principal Investigator / Chercheur principal	Ministry Decision / Décision ministère	Total Costs / Coût total	Max. ORF contribution / Contribution max. du FRO
LOF-1	Advanced Coatings and Bulk Materials for the Canadian Aerospace and Energy Industries		11/07/2008	\$450,000	\$180,000
LOF-1	Creation of a translational spinal cord repair laboratory		11/07/2008	\$170,198	\$60,000
LOF-1	Acquisition of instruments to monitor changes in lake and river ice / Acquisition d'instruments de suivi de l'évolution de la glace en lac et en rivière		04/29/2009	\$125,400	\$50,060
LOF-1	Aboriginal health: Mobile Field Reserch Unit (MFRU)		11/07/2008	\$219,612	\$75,000
LOF-1	Practical approaches for extending the mechanics of unsaturated soils into engineering practice		11/07/2008	\$166,145	\$65,000
LOF-1	High-Pressure High-Temperature Gas-Solid Fluidization Laboratory		04/29/2009	\$174,858	\$66,975
LOF-1	Laboratoire d'Éducation musicale, Lecture et Écriture [Musical Education, Reading and Writing Laboratory] (LabÉMLÉ)		04/29/2009	\$231,252	\$92,500
LOF-1	The transcriptional control of skeletal muscle differentiation and regeneration: a role for C/EBPbeta.		04/29/2009	\$150,449	\$58,120
LOF-1	Laboratory for Natural Product Biotechnology		04/29/2009	\$335,139	\$130,347
LOF-1	Plant-pollinator interactions and angiosperm evolution laboratory		04/29/2009	\$161,139	\$64,292
LOF-1	Molecular Genetics and Cardiac Regeneration Laboratory		04/29/2009	\$971,589	\$388,634
LOF-1	Combined Cell Biology and Proteomics Strategy for Analysing the Regulation of Protein Phosphatase 1 (PP1) in Mammalian Cells		04/29/2009	\$526,986	\$210,700
LOF-1	Human and Environmental Physiology Research Unit (HEPRU)		06/03/2009	\$846,911	\$338,763
LOF-1	Population Health Impact Assessment Data Centre		06/03/2009	\$219,758	\$81,800
LOF-1	Protein-protein interactions in cardiovascular disease		06/03/2009	\$269,935	\$107,974
LOF-1	Infrastructure for bioinformatics research concerning gene regulation		06/03/2009	\$289,790	\$115,916
LOF-1	Molecular structures for the chemistry of tomorrow		09/24/2009	\$806,309	\$322,524
LOF-1	High Resolution Still, Moving, and Stereo Image Capture and Dissemination through the Creation and Exhibition of Innovative Interactive Artworks		03/19/2010	\$137,408	\$54,963
LOF-1	Laboratory for Micro- and Nano-Scale Biophysical Sensing		09/24/2009	\$473,205	\$189,282
LOF-1	Neurolipidomics: Targeting the metabolic underpinnings of neurodegenerative disease		03/19/2010	\$909,020	\$363,608
LOF-1	Imaging memory formation		09/24/2009	\$999,845	\$399,938
LOF-1	Molecular Determinants and Behavioural Implications of Neurogenesis Throughout the Lifespan in Naïve and Pathological Conditions		03/19/2010	\$813,314	\$325,325
LOF-1	Virtual Health Populomics Lab		03/19/2010	\$686,619	\$273,926
LOF-1	Nanophotonics Research Facility		03/19/2010	\$999,854	\$399,942
LOF-1	The Virtual History Lab		05/10/2010	\$503,278	\$201,311
LOF-1	Bioanalytical and Molecular Interaction Laboratory		05/10/2010	\$831,883	\$332,753
LOF-1	Laboratory for molecular biogeochemistry of toxic metal(loid)s		05/10/2010	\$686,759	\$273,457
LOF-1	Laboratory of Comparative Fungal Genomics		08/04/2010	\$266,096	\$105,249

## *Institution / Établissement*

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LOF-1	The Protein Engineering and Computational Protein Design Laboratory		02/09/2010	\$599,862	\$239,945
LOF-1	Analytical instrumentation for chemical and metabolite diversity: Ultra HPLC-Q-TOF-MS		08/04/2010	\$551,023	\$211,325
LOF-1	Fluorescence spectroscopy tools for nanocatalysis studies		08/04/2010	\$914,361	\$361,173
LOF-1	A facility for the generation, maintenance and preservation of novel genetic mouse models of development and disease		02/09/2010	\$852,849	\$341,140
LOF-1	Facility for electrochemical engineering of advanced energy conversion systems		02/09/2010	\$218,123	\$87,249
LOF-1	Laboratory for Applied Single-Molecule Biophysics		06/28/2011	\$402,176	\$160,871
LOF-1	Brain plasticity, neuronal and metabolic adaptations		06/28/2011	\$895,392	\$350,156
LOF-1	Laboratory for Interactive Research on Environmental and Policy Change		06/28/2011	\$289,853	\$115,941
LOF-2	Laboratory for Biomolecular Assemblies		05/15/2007	\$249,900	\$99,960
LOF-2	X-ray crystallography and functional biochemistry laboratory studying cancer-related histone-modifying enzymes.		08/11/2008	\$986,637	\$390,807
LOF-2	Canadian Research Chair in Ethics and Contemporary Society		05/15/2007	\$132,584	\$53,034
LOF-2	High performance computer cluster for the investigation of light-matter interaction on the nanoscale		05/15/2007	\$374,967	\$150,000
LOF-2	Understanding Parkin Gene Expression: A Key Step for Future Parkinson Therapy		05/15/2007	\$312,500	\$125,000
LOF-2	Canada Research Chair in Public Health Policy		08/11/2008	\$107,766	\$40,477
LOF-2	Brain and behaviour laboratory for the study of peer relations		04/22/2008	\$261,131	\$99,720
LOF-2	Canada Research Chair Information Law Laboratory		04/22/2008	\$160,707	\$64,283
LOF-2	Device Characterisation Laboratory for Photonic Nanostructures and Integrated Devices		09/04/2007	\$299,997	\$119,999
LOF-2	Genetic and network analysis to characterize pathological systems related to cardiac function and the metabolic syndrome		04/22/2008	\$867,832	\$345,000
LOF-2	High Performance Computer for Numerical Simulations of Earth System Evolution		09/04/2007	\$353,534	\$130,000
LOF-2	Orthopaedic Bioengineering Laboratory for the Study of Musculoskeletal Diseases		04/22/2008	\$323,514	\$129,384
LOF-2	Experimental Cell Mechanics		11/07/2008	\$786,837	\$250,000
LOF-2	Integrating Technologies in the Study of Circadian Rhythms in Mammalian Model Systems: Biochemical, Molecular, Cellular, Genetic, Behavioural and Microscopic Imaging Approaches		08/11/2008	\$798,312	\$310,000
LOF-2	Legal Diversity and Aboriginal Peoples Lab		06/03/2009	\$119,297	\$47,719
LOF-2	Neural and metabolic correlates of emotional processing in neuropsychiatric disorders: Combining fMRI and MRS with pharmacological intervention		04/29/2009	\$236,312	\$94,524
LOF-2	Synthesis and Characterization Tools to Support Catalysis Studies for Energy Applications		04/29/2009	\$507,747	\$192,538
LOF-2	The role of innate resistance in protection from emerging pathogens		05/10/2010	\$1,312,317	\$524,926
LOF-2	Laboratory of Molecular Virology and Host Resistance Factors		05/10/2010	\$766,027	\$306,410



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<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
LOF-3	Laboratoire des français d'Amérique			
LOF-4	Green Information & Technology Networks Research			
NIF	Development of a Canadian Cardiovascular Genetics Centre - the first centre in Canada dedicated to genetics of Cardiovascular Disease			
NIF	Sub-Wavelength science			
NOF	Automated microbial culture facility for experimental evolution.			
NOF	The Ontario Cardiac Arrest Registry: an integrated data system measuring and improving out-of-hospital cardiac arrest and other critically ill patient outcomes.			
NOF	Acoustic measurement of flow and sediment transport for analysis of river channel change.			
NOF	Child and adult French reading and language and communication disorders laboratory			
NOF	The Proteomics REsearch and DlagnostiC Technology (PREDICT) Studio			
NOF	New Perspectives on Nursing Shortages through Canadian Census Data			
NOF	Exploration of neuro-functional mechanisms that may contribute to episode memory impairment in reality testing observed in schizophrenic patients.			
NOF	Laboratoire des medias audiovisuels pour les cultures et societes (LAMAC&S) / Audiovisual Media Lab for the Study of Culture and Society			
NOF	Collaborative Virtual Presence Modelling, Communications, and Applications			
NOF	Optimal Shape Design Laboratory			
NOF	Infrastructure for Advanced Research in Portable Non-Invasive Biomedical Monitoring Technologies			
NOF	Canadian Integrative Facility for Ecoinformatics Research (CIFER)			
NOF	Improving Emergency Department Care Using Information Technology			
NOF	Laboratory for Qualitative Research Methods in Environment and Health Geography			
NOF	Impact of Reinforcement Corrosion on Serviceability and Strength of reinforced Concrete Structures			
NOF	Research Laboratory for Exploring the Teaching and Learning of Mathematics			
NOF	Impaired Cytotoxic T cell Function and its Role in HIV Pathogenesis			
NOF	Systems for RNA structure/function relationship studies.			
<b><i>University of Toronto</i></b>		<b><i>Total: 365</i></b>	<b><i>\$423,025,395</i></b>	<b><i>\$139,604,877</i></b>
CA	The First Galaxies			
CA	CSCB: Centre for Stem Cell Bioengineering			
CRCIF	The Integrative Study of Genetics in Evolutionary Ecology			
CRCIF	Molecular Analysis of Hypothalamic Function			

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<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
CRCIF	Neurogenetics Infrastructure		\$730,335	\$292,134
CRCIF	Neuroplasticity in Aging		\$296,942	\$118,777
CRCIF	Automated Inverted Microscope for live cell imaging and photoactivation/photobleaching		\$363,117	\$130,961
CRCIF	Knowledge translation and quality improvement in health care		\$304,050	\$118,595
CRCIF	The Development of state-of-the-art Bio-Molecular and Tissue Culture Facilities to investigate the antibody response to pathogens		\$303,465	\$119,589
CRCIF	Infrastructure for recombinant protein expression, purification, structural and functional analysis		\$271,393	\$105,000
CRCIF	Youth and Urban School Performances		\$179,300	\$71,717
CRCIF	Angiogenic and Lymphangiogenic Signaling		\$311,958	\$124,783
CRCIF	BD-LSR-II flow cytometer		\$1,632,721	\$653,088
CRCIF	Supporting Educational Success through Evidence-Informed Policy and Practice		\$495,000	\$198,000
CRCIF	Advanced Materials Synthesis and Characterization Facility		\$600,000	\$240,000
CRCIF	Analytical Equipment for Innovations in Nanoscience of Self-Assembled Materials		\$1,100,000	\$440,000
CRCIF	Infrastructure for the enhancement of laboratory to investigate molecular mechanisms to control the formation of normal and abnormal mammalian kidneys		\$861,857	\$295,093
CRCIF	Global History Research Technology Centre		\$38,139	\$15,255
CRCIF	Equipment necessary for lab setup to investigate the molecular mechanisms of amyotrophic lateral sclerosis		\$314,629	\$125,000
CRCIF	Infrastructure for Computational Biology and Bioinformatics		\$1,125,365	\$450,146
CRCIF	Molecular Therapeutics and Clinical Proteomics		\$312,500	\$125,000
CRCIF	Infrastructure for the enhancement of laboratory facilities for investigating the role of stem cells in mesenchymal tumours		\$859,425	\$343,770
CRCIF	Facility for Plant Culture and Analysis at the University of Toronto at Scarborough		\$300,000	\$120,000
CRCIF	Imaging Research Laboratory		\$850,500	\$340,200
CRCIF	Molecular Craniofacial Biology		\$311,276	\$124,510
CRCIF	Cognitively Informed Technologies for Education (CITE)		\$415,000	\$166,000
CRCIF	Neural, autonomic, affective, and behavioural responsiveness to infant cues in low and high risk human mothers: Relation to gene polymorphisms		\$503,332	\$201,333
CRCIF	Expansion of the DNA Damage Response Laboratory		\$438,529	\$175,412
CRCIF	Infrastructure for Biomolecular-Enabled Nanotechnology and Photonics		\$360,000	\$144,000
CRCIF	Laboratories for Microfluidic Device Design and High-Throughput Analysis		\$1,049,880	\$419,952
CRCIF	The Study of epithelial polarity in Drosophila		\$897,500	\$359,000
CRCIF	Evolution of breeding system in Caenorhabditis nematodes: Genomics, population genetics, and experimental evolution.		\$432,500	\$173,000
CRCIF	Canada Research Chair on the Biological Chemistry of Metalloproteins		\$119,733	\$47,893

## ***Institution / Établissement***

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CRCIF	Infrastructure for a state-of-the-art Laboratory for Cellular Mechanobiology		06/26/2006	\$319,648	\$127,859
CRCIF	Facility for Surface Patterning and Characterization		08/31/2006	\$312,500	\$125,000
CRCIF	Infrastructure for the development and characterization of smart and functional polymers		08/31/2006	\$496,491	\$198,597
CRCIF	Infrastructure for whole genome alignment pipeline and supporting computational genomics		12/21/2006	\$346,516	\$102,628
CRCIF	Life Career Development		08/31/2006	\$308,750	\$123,500
CRCIF	Designing Learning Environments for Literacy Development and Knowledge Generation in a Diverse Society		08/31/2006	\$415,425	\$166,170
CRCIF	Using technology to bridge neuroscience, children's mental health, and educational practice		08/31/2006	\$596,990	\$238,796
CRCIF	Proteomic Analysis of Ubiquitin-Like Modifiers		06/26/2006	\$312,500	\$125,000
CRCIF	Canadian Centre for Ethnography		08/31/2006	\$43,601	\$17,440
CRCIF	Infrastructure for Novel Techniques to Characterize Mass-Selected Biological Ions and their Complexes		08/31/2006	\$1,335,441	\$510,000
CRCIF	Identification of genetic causes of paediatric neurological conditions and using these to uncover the cellular pathways involved and determine the ways in which they are disturbed		12/21/2006	\$491,960	\$196,784
CRCIF	Immunopathogenesis of Sepsis-Related Acute Lung Injury and Multiple Organ Dysfunction Syndrome		08/31/2006	\$312,500	\$125,000
CRCIF	Functional Proteomics of PP2A - type phosphatases		12/21/2006	\$416,290	\$159,622
CRCIF	Using chemical probes to explore gene function in <i>Saccharomyces cerevisiae</i> and to characterize chemotherapeutics		08/31/2006	\$528,800	\$211,520
CRCIF	Infrastructure Requirements for Field Measurements of Reactive Nitrogen in the Atmosphere		12/21/2006	\$650,000	\$260,000
CRCIF	Molecular regulators involved in the lineage-specific differentiation of mouse and human embryonic stem cells		12/21/2006	\$1,312,500	\$525,000
CRCIF	Psychological and Neural Bases of Visual Cognition		12/21/2006	\$300,000	\$120,000
CRCIF	Molecular Mechanisms Driving the Evolution of Fungal Pathogens and their Hosts		12/21/2006	\$749,710	\$299,188
IF	Large Optical Telescope (LOT)		12/20/2004	\$10,000,000	\$2,000,000
IF	Centre for Biological Timing and Cognition (CBTC)		12/16/2004	\$25,140,502	\$3,126,473
IF	Nanofabrication of Metamaterials		12/16/2004	\$11,922,411	\$1,456,492
IF	Infrastructure Facility for Centre for Biocomposites and Biomaterials Processing		12/16/2004	\$5,762,281	\$704,982
IF	Southern Ontario Centre for Atmospheric Aerosol Research (SOCAAR).		12/16/2004	\$3,144,038	\$390,926
IF	Rock Fracture Dynamics Facility: Experimental rock deformation and geophysical imaging for validation of coupled-process numerical modelling		12/16/2004	\$4,949,937	\$615,574
IF	The Polar Environment Atmospheric Research Laboratory (PEARL) at Eureka		12/16/2004	\$8,721,306	\$815,590
IF	Establishment of a national GLP Core Facility to Monitor Immune Responses in Humans to Prophylactic and or Therapeutic Vaccines Against Infectious Diseases, Cancer and Autoimmunity		12/16/2004	\$914,122	\$113,680

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IF	Intelligent Design for Adaptation, Participation and Technology (IDAPT): Innovative Rehabilitation for People in Challenging Environments		12/16/2004	\$18,398,069	\$2,287,775
IF	Facilities for Manufacturing Microcellular and Nanocellular Plastics with Superior Properties with Lowered Weights		12/16/2004	\$1,864,375	\$231,854
LEF	An Integrated Centre for Surface and Interfacial Analysis of Advanced Materials		03/15/2007	\$3,411,949	\$1,361,065
LEF	Centre for Plant Phenogenomics		03/15/2007	\$5,392,050	\$2,002,758
LEF	Centre for Spectroscopic Investigation of Complex Organic Molecules and Polymers (CSICOMP)		06/28/2009	\$6,564,864	\$2,588,764
LEF	Centre for Industrial Application of Microcellular Plastics		06/28/2009	\$9,239,636	\$3,334,310
LEF	The Canadian Aerosol Research Network (CARN): Climate, Air Quality and Health in 2020		06/28/2009	\$15,148,327	\$3,589,907
LEF	Center for the Neurobiology of Stress		06/28/2009	\$5,264,808	\$2,105,735
LEF	A Multi-Site, Integrated National Technology Platform for Mapping Protein Interaction Networks in Health and Disease		06/28/2009	\$12,934,445	\$5,173,778
LEF	Deciphering cellular networks in health and disease using automated genetics and cell biology		06/28/2009	\$5,855,996	\$2,342,442
LEF	Advanced Thermal Spray Process Diagnostics and Coating Characterization Facilities		06/28/2009	\$4,006,608	\$1,602,731
LEF	High Field NMR Studies of Protein Molecules in Health and Disease		06/28/2009	\$11,489,607	\$4,595,843
LOF	High-throughput cell and molecular biology facility for functional genomics studies of developmental phase transitions and hormone cross-talk in plants.		08/31/2006	\$250,000	\$100,000
LOF	Development Platform and Testbed for Peer Network Protocol Architectures		08/31/2006	\$500,000	\$200,000
LOF	Developing Social Brains		08/31/2006	\$599,368	\$239,747
LOF	Systems Biology Facility for Proteomics of Plant-Microbe Interactions		08/31/2006	\$499,914	\$199,894
LOF	Quaternary Paleoecology Laboratory		08/31/2006	\$389,459	\$155,784
LOF	Laboratory for Functional Tissue Engineering		08/31/2006	\$281,875	\$112,750
LOF	Laboratory for Cellular Systems Biology		08/31/2006	\$585,824	\$234,313
LOF	Bone Engineering		08/31/2006	\$991,319	\$396,553
LOF	Numerical Astrophysical Laboratory for Planetary Studies		08/31/2006	\$500,000	\$200,000
LOF	Facility integrating 2-photon imaging and electrophysiology for neurodevelopmental research		08/31/2006	\$756,004	\$302,401
LOF	Systems biology through machine learning: adaptive computer programs for denoising, interpreting, and integrating large-scale biological databases		12/21/2006	\$322,183	\$128,873
LOF	Role of subcellular localization of key sphingosine-1-phosphate (S1P)-related signaling proteins in microvascular function.		08/31/2006	\$607,760	\$243,103
LOF	Biotechnology for Wood Fibre Processing and Engineering		12/21/2006	\$250,000	\$100,000
LOF	A protein interaction network of the yeast MRP-subfamily of ABC transporters		12/21/2006	\$442,284	\$176,627
LOF	An NMR Spectrometer for the Investigation of Environmental Soil Processes and Toxicity In-Situ		12/21/2006	\$940,515	\$300,000

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LOF	A Supercomputer for Numerical Simulations of Planetary Dynamics		12/21/2006	\$319,049	\$100,000
LOF	Laboratory of Metabolic Systems Engineering		12/21/2006	\$255,392	\$102,150
LOF	Infrastructure for Semantic Technologies Laboratory		12/21/2006	\$350,000	\$113,821
LOF	Research Facility for Global Change Molecular Physiology of Trees		02/09/2010	\$497,334	\$198,924
LOF-1	Nod proteins in infectious and inflammatory diseases		09/04/2007	\$327,834	\$124,754
LOF-1	Systematic Mapping and Modulation of Biological Networks		05/15/2007	\$1,044,388	\$417,755
LOF-1	Equipment for the integrated study of environmental fluid dynamics in the laboratory and field.		05/15/2007	\$250,000	\$100,000
LOF-1	Molecular Mechanisms of Neurodegeneration After Traumatic CNS Injury and Stroke		05/15/2007	\$430,970	\$120,458
LOF-1	Electron cryomicroscopy of macromolecular assemblies		05/15/2007	\$1,648,305	\$659,322
LOF-1	Molecular mechanisms underlying motor control in the normal striatum and in Parkinson's disease		05/15/2007	\$220,969	\$88,000
LOF-1	Creation of a Laboratory to Study Crosstalk Between Aryl Hydrocarbon Receptor and Estrogen Receptor Signalling Pathways		05/15/2007	\$496,721	\$198,500
LOF-1	Laboratory for the integrative study of plant evolutionary genomics and systematics		05/15/2007	\$248,815	\$99,526
LOF-1	Infrastructure for the study of Multinuclear Transition Metal Compounds		06/26/2007	\$662,504	\$240,000
LOF-1	Coping with stigma: The neural, physiological, and behavioural consequences of prejudice		06/26/2007	\$124,973	\$49,995
LOF-1	A precision laboratory system for high resolution environmental analysis		06/26/2007	\$978,354	\$333,912
LOF-1	Genetics and Imaging in Nervous System Development		06/26/2007	\$987,964	\$395,186
LOF-1	Facility for Integrative Drosophila Biology and the Mitochondrial Cell Death Machine		06/26/2007	\$275,000	\$100,000
LOF-1	Infrastructure of Enable Flexible Organic-based Photovoltaics to Achieve Broad Spectral Absorption and High Efficiency		06/26/2007	\$586,710	\$234,694
LOF-1	Facilities For Integrative Study of CNS Neuroplasticity		06/26/2007	\$1,996,729	\$798,691
LOF-1	Laboratory for Ecological and Evolutionary Genomics		06/26/2007	\$300,000	\$120,000
LOF-1	Next-Generation Astronomical Instrumentation and Experimental Astrophysics in the Infrared and Optical Wavebands		06/26/2007	\$1,000,000	\$400,000
LOF-1	Using Bone Marrow Transplantation for Analysis of Gene Function in Disease		09/04/2007	\$526,095	\$210,438
LOF-1	Paleoclimate Laboratory		09/04/2007	\$297,305	\$118,922
LOF-1	Modern Laboratory for Innovation in Organic Synthesis and Catalysis		09/04/2007	\$1,050,000	\$380,000
LOF-1	Maximum information from single-molecule fluorescence: An innovative microscope for dynamics studies of biological molecules		09/04/2007	\$580,000	\$232,000
LOF-1	Facility for Microfluidics-Enabled Formation, Assembly and Integration of Structured (Bio)Materials		09/04/2007	\$309,357	\$100,000
LOF-1	VolunteersCount Infrastructure Grant		09/04/2007	\$250,000	\$100,000

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-1	The Active Human Cell Map - Enabling Molecular and Genomic Medical Research		09/04/2007	\$356,292	\$142,517
LOF-1	Facility for in vivo imaging and optical manipulation of the neurocircuit in C.elegans		04/22/2008	\$415,750	\$163,998
LOF-1	Reconfigurable Antenna Design and Characterization Facility		04/22/2008	\$253,761	\$101,504
LOF-1	Laboratory for Cellular and Molecular Biomechanics		09/04/2007	\$250,000	\$100,000
LOF-1	The Social-Cognitive Neuroscience of Human Motivation		09/04/2007	\$177,913	\$71,165
LOF-1	Centre for Urban Freight Analysis (CUFA)		04/22/2008	\$261,000	\$100,000
LOF-1	An investigation of the mechanisms underlying amblyopia (lazy eye)		04/22/2008	\$999,970	\$399,988
LOF-1	Deterioration of bulbar function in amyotrophic lateral sclerosis		04/22/2008	\$159,753	\$63,901
LOF-1	Implementing a laboratory to develop new medications for drug dependence		04/22/2008	\$500,000	\$200,000
LOF-1	Infrastructure to Explore the Evolutionary Impacts of Climate Change		04/22/2008	\$1,508,000	\$603,200
LOF-1	A loss-of-function RNA interference screen for key inhibitory regulators of cardiomyocyte proliferation		04/22/2008	\$645,408	\$258,163
LOF-1	BioZone: A Modern Collaborative Bioengineering Research Facility		04/22/2008	\$545,370	\$218,144
LOF-1	Medicinal Chemistry Infrastructure		04/22/2008	\$991,450	\$396,580
LOF-1	Rodent Cardiovascular and Physiological Investigations		04/22/2008	\$336,062	\$129,455
LOF-1	High Temperature Materials Processing Research Laboratory		04/22/2008	\$230,307	\$92,043
LOF-1	Stress and memory: Physiology, brain, and behaviour in infants, children, and parents		04/22/2008	\$100,000	\$40,000
LOF-1	Social Information Systems Laboratory		08/11/2008	\$485,915	\$194,366
LOF-1	Composite Biological Materials Laboratory		04/22/2008	\$450,051	\$180,000
LOF-1	Regulation of Quiescent States in S. cerevisiae and C. elegans.		04/22/2008	\$550,000	\$179,999
LOF-1	Lentiviral RNAi and high-content screening resource for identification of genes required for adaptive evolution under environmental constraints		04/22/2008	\$989,774	\$391,086
LOF-1	Tissue organization and growth control through Fat receptor signaling		04/22/2008	\$992,100	\$396,840
LOF-1	Geodetic urban monitoring facility for Canada		04/22/2008	\$380,696	\$149,787
LOF-1	Advanced Packet Switch and Network Laboratory		08/11/2008	\$381,508	\$120,000
LOF-1	Advanced soil biogeochemistry and microbial ecology research facility		04/22/2008	\$210,770	\$84,308
LOF-1	The Laboratory for Atmospheric Spectroscopy and Applications (LASAA)		04/22/2008	\$550,000	\$211,428
LOF-1	Brain, Behaviour, Genes: New Knowledge from Innovative Studies of Language and Reading in Monolingual and Bilingual Children Leads to Optimal Pathways to Remediation		04/22/2008	\$360,246	\$141,781
LOF-1	Risk and resiliency factors for externalizing pathology: Evidence from childhood personality		04/22/2008	\$188,157	\$75,263
LOF-1	Infrastructure for the study of photonic integrated bio-sensors and biomedical imaging systems		04/22/2008	\$375,000	\$150,000



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LOF-1	Infrastructure for Epigenomic Studies of Human Disease		04/22/2008	\$543,433	\$217,373
LOF-1	Infrastructure to study the etiology of pregnancy complications		08/11/2008	\$976,361	\$390,545
LOF-1	Developing Small Molecule Modulators of Protein-Protein Interactions		08/11/2008	\$329,724	\$131,890
LOF-1	Spatial Ecology and Landscape Genetics Laboratory		08/11/2008	\$92,967	\$37,187
LOF-1	Research Laboratory for the molecular ecology of aquatic microorganisms		08/11/2008	\$355,462	\$142,184
LOF-1	Micro/Nano-Optoelectronic Devices Laboratory		08/11/2008	\$499,790	\$199,916
LOF-1	Cellular microbiology facility for research into the interaction of dendritic cells with commensal pathogenic flora.		11/07/2008	\$467,177	\$186,121
LOF-1	Nuclear magnetic resonance equipment for high throughput environmental metabolic profiling		08/11/2008	\$500,000	\$200,000
LOF-1	Laboratory for Plant evolutionary genomics		11/07/2008	\$635,000	\$254,000
LOF-1	Infant and Toddler Laboratory for the Study of Language Development		08/11/2008	\$195,364	\$78,145
LOF-1	An Integrated Facility for Studying Protein Structure, Dynamics, Interactions, and Function by NMR and Fluorescence Spectroscopy		08/11/2008	\$204,278	\$80,000
LOF-1	Systems Biology Facility for Metabolomics of Plant Hormone Metabolisms		04/29/2009	\$825,000	\$330,000
LOF-1	Laboratory for the discovery of new catalysts and functional materials		08/11/2008	\$999,400	\$330,000
LOF-1	Studies on the role of T cells in the Inflammatory Bowel Diseases		08/11/2008	\$109,544	\$43,815
LOF-1	Proteomic Facility for Biomarker Discovery and Validation		08/11/2008	\$355,381	\$135,268
LOF-1	Analysis of regulatory sequences and systems		08/11/2008	\$220,000	\$88,000
LOF-1	The Study of Nuclear Hormone Receptors in Metabolic Disease		08/11/2008	\$440,438	\$176,169
LOF-1	Trace Metal and Metal Isotope Biogeochemistry Laboratory		11/07/2008	\$1,360,623	\$440,000
LOF-1	Expanding yeast genome-wide chemogenomic screens to human cells		04/29/2009	\$370,000	\$148,000
LOF-1	The Next Generation of Robotic Helpers: A State of the Art "Robots for Everyday Applications" Laboratory		05/10/2010	\$275,317	\$96,363
LOF-1	Digital High-Speed Optical Imaging System- Towards a better understanding of earthquakes and dynamic fractures		11/07/2008	\$375,000	\$150,000
LOF-1	Imaging equipment to monitor protein dynamics in cell polarity and signal transduction		11/07/2008	\$1,006,793	\$379,330
LOF-1	Infrastructure for Experimental Research on Passive Flow Control for Reduction of Bluff-Body Drag and Suppression of Vortex-Induced Vibration		11/07/2008	\$375,000	\$150,000
LOF-1	Histone-like proteins and the control of bacterial virulence gene expression		11/07/2008	\$336,739	\$131,929
LOF-1	Experimental facilities for research on active flow control of transitional and turbulent flows		11/07/2008	\$374,608	\$149,832
LOF-1	Facility for the Chemical Biology of Organelle-Specific Drugs		11/07/2008	\$533,000	\$200,000
LOF-1	Earhome Laboratory (Elab) Project		11/07/2008	\$412,500	\$165,000
LOF-1	5th Generation Electron Beam Line: "Molecular Movie Studio"		11/07/2008	\$300,000	\$120,000

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LOF-1	A two-photon microscope for quantitative live cell imaging and integration with microfluidic platforms.		04/29/2009	\$896,409	\$334,999
LOF-1	Centre for the systematic mapping of genetic interactions in <i>C. elegans</i> and <i>Drosophila</i>		11/07/2008	\$987,817	\$394,796
LOF-1	AEGEAN MATERIAL CULTURE LABORATORY		04/29/2009	\$230,585	\$92,234
LOF-1	The role of bacterial programmed cell death in biofilm infections.		04/29/2009	\$267,117	\$106,847
LOF-1	BioBehavioural Addictions and Concurrent Disorders Research Laboratory (BACDRL) at CAMH		04/29/2009	\$246,490	\$98,596
LOF-1	Ontario Child Abuse and Neglect Data System		09/24/2009	\$695,943	\$277,335
LOF-1	Proteomic tools for the analysis of chaperone interaction networks		04/29/2009	\$348,150	\$139,260
LOF-1	High-throughput screening resource for the isolation of phage-displayed antibodies and peptide ligands		04/29/2009	\$745,600	\$298,240
LOF-1	Optical Spectroscopy: Unique Tools Providing Key Insights and Novel Devices		04/29/2009	\$850,000	\$340,000
LOF-1	Carbon-11 synthesis module		04/29/2009	\$253,415	\$101,366
LOF-1	Memory organization in the human brain		06/03/2009	\$250,000	\$100,000
LOF-1	High-throughput preparation and storage systems		02/09/2010	\$113,500	\$45,400
LOF-1	Advanced Learning Technologies for Classrooms and Knowledge Communities		02/09/2010	\$548,500	\$219,400
LOF-1	Infrastructure for a behavioural pharmacology laboratory specialising in mental health and addictions		06/03/2009	\$309,095	\$123,638
LOF-1	Integrated Watershed Hydrology and Biogeochemistry Research Facility for the Study of Contaminant Transport and Transformation		09/24/2009	\$550,000	\$220,000
LOF-1	The ecology and evolution of mutualism: infrastructure for field and laboratory research		06/03/2009	\$274,000	\$109,600
LOF-1	MHC-independent innate immune recognition by natural killer cells		06/03/2009	\$260,063	\$99,911
LOF-1	Hyperpolarized Carbon-13 for Guiding Therapy		06/03/2009	\$521,743	\$208,697
LOF-1	Molecular Anthropology & Primatology Laboratory for the Study of Evolution (MAPLE)		06/03/2009	\$269,858	\$70,000
LOF-1	Establishment of a Protein Biochemistry and Molecular Biology Laboratory for Research in Plant Development and Stress Biology		09/24/2009	\$375,000	\$150,000
LOF-1	Laboratory for the Study of Polarity Proteins in Breast Cancer		06/03/2009	\$999,931	\$399,973
LOF-1	Archaeological Spatial and Architectural Laboratory (ASAL)		06/03/2009	\$185,986	\$74,302
LOF-1	Systems analysis of thermosensation in <i>E. coli</i> and <i>C. elegans</i>		06/03/2009	\$750,000	\$300,000
LOF-1	Pharmacogenetics in Psychiatry: A new era of personalized medicine		09/24/2009	\$997,640	\$399,056
LOF-1	Infrastructure for Molecular Genetics and Therapeutics in Sarcoma		09/24/2009	\$975,471	\$390,188
LOF-1	PPARalpha as a Mediator of Sex Differences in Autoimmunity		03/19/2010	\$257,068	\$102,827
LOF-1	Manufacture and testing of advanced aerospace materials		03/19/2010	\$275,326	\$29,643

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LOF-1	Establishment of a Live-Cell Imaging and Biochemistry laboratory for Research in Organelle Biogenesis and Degradation		03/19/2010	\$1,121,634	\$448,654
LOF-1	Establishment of a Laboratory for Research on the Evolutionary Genetics of Animal Behaviour		03/19/2010	\$581,677	\$200,339
LOF-1	Laboratory for Computational Structural Biology		03/19/2010	\$548,000	\$200,000
LOF-1	Studying the Role of Macro-Autophagy in Mediating Response to Antiangiogenic Tumour Therapy		09/24/2009	\$112,592	\$45,037
LOF-1	Massively parallel computation and massive storage for the application of deep learning to large databases		09/24/2009	\$94,028	\$37,214
LOF-1	Critical Making: the Materialization of Digital Information		09/24/2009	\$85,875	\$34,113
LOF-1	Human Annotated Interaction Networks – A Resource to Analyze Genetic Variants and Disease Mutations		09/24/2009	\$233,765	\$93,778
LOF-1	Muscle Function and Performance in Children with Muscular Dystrophy		03/19/2010	\$205,480	\$82,196
LOF-1	Tissue Morphogenesis Engineering Laboratory		05/10/2010	\$350,801	\$140,320
LOF-1	High performance computing infrastructure for large-scale healthcare optimization		03/19/2010	\$244,841	\$91,324
LOF-1	Infrastructure for DNA damage and Neurotoxicology		03/19/2010	\$427,190	\$170,884
LOF-1	Research Laboratory for Mobile Genetic Elements in Eukaryotic Genomes		03/19/2010	\$358,115	\$143,245
LOF-1	Dyadic psychophysiology lab: A multi-method approach to intergroup relations		03/19/2010	\$151,930	\$54,584
LOF-1	Chemical Imaging and Microscopic Facility for Laboratory for Interface Biogeochemistry: Microbe-Mineral Interaction		05/10/2010	\$649,279	\$250,000
LOF-1	Multicore Applications, Architectures, and Algorithms for Complex Systems		05/10/2010	\$748,432	\$269,975
LOF-1	Laboratory for the Development of Optoelectronic Polymers and Nanomaterials		08/04/2010	\$1,000,000	\$400,000
LOF-1	Network Organizations Underlying Long-term Memory		08/04/2010	\$500,000	\$200,000
LOF-1	Establishment of a Non-Invasive Brain Stimulation Laboratory		05/10/2010	\$77,281	\$29,059
LOF-1	Experimental ecology laboratory for research in plant evolution and the origins of ecological function.		08/04/2010	\$250,071	\$87,283
LOF-1	Eye-tracking Laboratory for the Study of Language in Conversation		08/04/2010	\$54,979	\$21,992
LOF-1	In vivo microscopy for understanding dementias and cerebrovascular diseases		05/10/2010	\$635,376	\$254,150
LOF-1	A simple model for characterizing gene regulatory networks in innate immunity		05/10/2010	\$293,588	\$117,435
LOF-1	Analysis of 3-Dimensional Genome Architecture and its Effect on Regulation of Gene Expression		05/10/2010	\$1,000,000	\$400,000
LOF-1	Establishment of an Integrative Physiology Laboratory for Locomotor Muscle Biology		05/10/2010	\$400,493	\$140,000
LOF-1	Microscale energy systems transport phenomena laboratory		05/10/2010	\$281,521	\$111,325
LOF-1	Characterization of hepatic dysfunction post-burn		05/10/2010	\$1,000,000	\$400,000
LOF-1	Infrastructure for studying quantum-coherence in chemistry and biology		05/10/2010	\$626,832	\$180,000
LOF-1	Mass Spectrometry-based Proteomic Studies of Cancer Models		05/10/2010	\$1,182,789	\$400,000

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LOF-1	A Supercomputer System For Seismic Imaging Based on Adjoint Methods		05/10/2010	\$342,446	\$100,000
LOF-1	Cognitive Enhancement in Patients with Schizophrenia Across the Lifespan: a Brain Stimulation Project		08/04/2010	\$203,369	\$81,347
LOF-1	Pathogenic Bacteria Membrane Protein Purification and Crystallization Facility		02/09/2010	\$178,578	\$74,390
LOF-1	Integrated plant-soil analytical laboratory and experimentation facility to link ecophysiology and biogeochemistry in agroecology		08/04/2010	\$249,974	\$99,868
LOF-1	Development of animal models for influenza virus transmission and pathophysiology		08/04/2010	\$259,218	\$102,920
LOF-1	Transcriptional and post-transcriptional regulation of endothelial specification and vascular development		08/04/2010	\$429,560	\$171,825
LOF-1	Molecular Manipulation and Imaging Facility for the Study of mRNA.		08/04/2010	\$398,630	\$153,861
LOF-1	Remote Sensing and Spatial Ecosystem Modelling Laboratory		08/04/2010	\$402,923	\$116,010
LOF-1	Nerve Research Centre at the Hospital for Sick Children in Toronto		08/04/2010	\$649,322	\$213,368
LOF-1	Animal Models of Neurological and Psychiatric Disease.		08/04/2010	\$515,147	\$199,903
LOF-1	Advanced Power Electronics and Smart Power IC Research Laboratory for Automotive, Industrial, Aerospace and Photovoltaic Energy Applications		08/04/2010	\$254,581	\$100,000
LOF-1	Infrastructure to study synaptic plasticity and behavior in Drosophila		08/04/2010	\$671,514	\$268,605
LOF-1	Biomolecule-based design of imaging and therapeutic agents		08/04/2010	\$997,573	\$399,029
LOF-1	Controlling the fibrogenic activity of myofibroblasts as a crucial step in successful tissue repair and regeneration		08/04/2010	\$313,870	\$125,548
LOF-1	The Supreme Court of Canada Database, 1875-2010		08/04/2010	\$68,434	\$27,374
LOF-1	Laboratory for Phototherapeutics in Oral Diseases (L-POD)		08/04/2010	\$313,262	\$114,245
LOF-1	Local Indicators Database for Economic Analysis (Local IDEAs)		02/09/2010	\$400,000	\$160,000
LOF-1	Laboratory for Architecture Intelligence Research (LAIR)		02/09/2010	\$270,517	\$100,000
LOF-1	Targeting receptor-receptor interaction for development of novel therapeutics to treat neuropsychiatric diseases		02/09/2010	\$694,837	\$258,111
LOF-1	Dissecting networks that regulate cancer initiation and progression		02/09/2010	\$526,228	\$210,492
LOF-1	Manufacture of metallic cellular structures		02/09/2010	\$200,000	\$80,000
LOF-1	Integrated Field- and Laboratory-Based Mapping Facility for Active Faults and Landscape Evolution		02/09/2010	\$160,240	\$64,096
LOF-1	Compression, Transmission and Representation of 3D video over networks		02/09/2010	\$249,960	\$99,984
LOF-1	The Organization of Verbal Memory in the Human Brain		02/09/2010	\$154,296	\$61,618
LOF-1	Infrastructure for Macromolecular Crystallography		02/09/2010	\$454,097	\$180,000
LOF-1	High resolution real-time 3D imaging of bacterial infection in living hosts: Investigation of blood-borne dissemination mechanisms of the Lyme disease pathogen		06/28/2011	\$637,024	\$249,292
LOF-1	Multidisciplinary Laboratory for Innovative Catalytic Science		06/28/2011	\$477,840	\$191,136

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LOF-1	Identifying hippocampal neural circuits underlying anxiety		06/28/2011	\$500,000	\$200,000
LOF-1	Laboratory for the Study of Adaptive Development and Emotions in Children and Youth		06/28/2011	\$59,290	\$23,716
LOF-1	Combined in vitro/in vivo Bioimaging Approach for Translational Research in Lung Injury and Repair		06/28/2011	\$999,384	\$389,428
LOF-1	Animal Resources to Support Cardiovascular and Cancer Research		06/28/2011	\$991,675	\$396,670
LOF-2	Laboratory facilities for the production of proteins and peptides for solid state NMR based structural studies		05/15/2007	\$300,535	\$120,214
LOF-2	Facility to investigate the physiology of the developing cerebral cortex		05/15/2007	\$427,075	\$170,830
LOF-2	Infrastructure for metabolic and nutritional epidemiologic studies of diabetes and related disorders		05/15/2007	\$315,131	\$125,000
LOF-2	An Integrated Systems Biology Approach to Epithelial Ovarian Cancer: A Combined Proteomic, Transcriptomic and Bioinformatic Strategy		05/15/2007	\$659,212	\$215,608
LOF-2	Integrative Computational Biology: Towards Intelligent Molecular Medicine		05/15/2007	\$700,646	\$259,392
LOF-2	Molecular Analysis of Cell Division		05/15/2007	\$231,860	\$92,744
LOF-2	Infrastructure for large-scale analysis of DNA-protein interactions		05/15/2007	\$312,394	\$124,971
LOF-2	Development of a scalable web-based data entry and management system for large scale blood-based epidemiological studies		05/15/2007	\$310,236	\$124,094
LOF-2	New aspects of the host response to bacterial peptidoglycan		05/15/2007	\$320,080	\$124,931
LOF-2	Extending the Research Capabilities of the Integrated Nanotechnology/Biomedical Sciences Laboratory		05/15/2007	\$249,619	\$99,848
LOF-2	Molecular characterization of the oxygen-sensing pathway		05/15/2007	\$311,653	\$123,639
LOF-2	Infrastructure to support a molecular mucosal immunology facility		05/15/2007	\$259,936	\$103,975
LOF-2	Genetic Network Robotics Platform: BioMatrix High-Throughput Carousel and Imaging Systems with Control Software		05/15/2007	\$340,559	\$136,224
LOF-2	Cognitive Neuroscience of Memory		05/15/2007	\$312,500	\$125,000
LOF-2	Genetic epidemiology of complex diseases		05/15/2007	\$308,604	\$123,442
LOF-2	Fibre-based Ultrafast Photonics and Quantum Communication Laboratory		05/15/2007	\$537,220	\$213,974
LOF-2	Imaging and Proteomic Analysis of Matrix Signaling Pathways		05/15/2007	\$319,650	\$127,860
LOF-2	Establishment of a Molecular Biology and Proteomics Laboratory for Research into Signal Transduction and Cell Death in Ischemia		06/26/2007	\$557,772	\$223,107
LOF-2	Shp2/Ras Pathway in Human Disease		06/26/2007	\$1,026,165	\$410,466
LOF-2	Infrastructure for the enhancement of laboratory facilities to investigate the molecular basis of microbial interactions with the infected host		04/22/2008	\$427,348	\$170,939
LOF-2	Establishment of a proteomic platform at the Faculty of Pharmacy of the University of Toronto		06/26/2007	\$679,471	\$217,180
LOF-2	Facility for Integrative Neurobiology of Sleep and Respiratory Regulation in Health and Disease		06/26/2007	\$312,500	\$125,000

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LOF-2	Extending the Research Capabilities of the Stem Cell Bioengineering and Functional Genomics Laboratory		04/22/2008	\$251,130	\$100,000
LOF-2	Tools for the investigation of lipids and membranes in drug delivery and drug therapy		06/26/2007	\$506,330	\$202,532
LOF-2	Comparative, International and Development Education Collaboration Room and the CIDEDEC Global Governance Lab		08/11/2008	\$150,271	\$60,108
LOF-2	Advanced Imaging Workstation		04/22/2008	\$108,570	\$43,428
LOF-2	Molecular evolution of visual pigments		08/11/2008	\$50,000	\$20,000
LOF-2	Ellipsometric Porosimetry: A New Analytical Technique to Elucidate the Porosity, Optical and Mechanical Properties of Novel Nanoporous Thin Films		09/04/2007	\$100,000	\$40,000
LOF-2	A local probe for cold atoms in optical lattices		09/04/2007	\$350,000	\$140,000
LOF-2	Cardiopulmonary Rehabilitation Laboratory: Infrastructure to Generate Knowledge to Maximize Daily Function in Individuals with Chronic Obstructive Pulmonary Disease		04/22/2008	\$241,795	\$96,718
LOF-2	Transducer Fabrication Facility		09/04/2007	\$671,443	\$268,577
LOF-2	Neurogenetics and Behaviour Research Facility		04/22/2008	\$654,023	\$261,609
LOF-2	Computational Platform for Design, Modeling, and Simulation of Photonic Crystals		09/04/2007	\$660,346	\$200,000
LOF-2	Infrastructure plan for the study of linguistic and conceptual development		09/04/2007	\$254,802	\$100,000
LOF-2	Cardiovascular proteomics and molecular therapeutics lab		09/04/2007	\$526,351	\$200,000
LOF-2	Integrative Behaviour & Neuroscience Research and Support Facility		09/04/2007	\$631,568	\$230,000
LOF-2	Imaging for Women's and Infants' Health		09/04/2007	\$861,081	\$344,432
LOF-2	Fuel Cell Materials and Manufacturing		04/22/2008	\$557,473	\$200,000
LOF-2	Computing infrastructure for information processing and machine learning		09/04/2007	\$475,200	\$174,921
LOF-2	Autonomous Planetary Rover Testbed		09/04/2007	\$502,180	\$200,872
LOF-2	Microscope for real-time life imaging of cells and tissues		04/22/2008	\$232,757	\$93,103
LOF-2	Structural and Functional Organization of the Transmitter Release Site (TRS)		04/22/2008	\$983,279	\$393,311
LOF-2	Breast Cancer: New Therapeutic Approaches		08/11/2008	\$998,057	\$379,702
LOF-2	Investigations of Craniofacial Pain and Sensorimotor Function in Humans and Animal Models		04/22/2008	\$330,833	\$121,662
LOF-2	Mobile Computer-Assisted Survey Research Lab: Addressing Socio-behavioural Challenges of HIV Vaccine Development and Dissemination		08/11/2008	\$329,488	\$126,912
LOF-2	Tools for Synthesis and Characterization of Inorganic Materials		04/22/2008	\$1,000,000	\$400,000
LOF-2	Molecular Mechanisms Regulating T cell Tolerance and Function		11/07/2008	\$1,048,746	\$418,684
LOF-2	Infrastructure for a program in Fetal, Neonatal and Maternal Health		11/07/2008	\$941,732	\$376,693
LOF-2	Infrastructure for high-resolution three-dimensional imaging of live cells		08/11/2008	\$812,945	\$325,178
LOF-2	Molecular Imaging Approaches to Cognition		04/29/2009	\$597,714	\$239,085



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LOF-2	Post-Marketing Surveillance Infrastructure for Arthritis: Supporting the optimal use of therapies and best practices for rheumatologic care in Canada		09/24/2009	\$397,904	\$156,362
LOF-2	Genetic Basis of Social Behaviour in Drosophila		03/19/2010	\$600,000	\$240,000
LOF-2	Microbial Phenogenomic Platform		05/10/2010	\$200,000	\$80,000
LOF-2	Infrastructure for imaging and optical manipulation of intracellular processes using Chromophore-assisted light inactivation.		09/24/2009	\$1,036,524	\$373,436
LOF-2	Pediatric Rehabilitation Intelligent Systems Multidisciplinary (PRISM) Lab		09/24/2009	\$233,314	\$79,413
LOF-2	Gravity GPU Cluster for studies of strong-field general relativity		09/24/2009	\$491,916	\$166,000
LOF-2	Multi-mode spinning disc confocal platform for live cell imaging		05/10/2010	\$964,325	\$385,730
LOF-2	Infrastructure for Memory and Learning		05/10/2010	\$999,379	\$399,751
LOF-2	Humanities Research Technology Centre (HRTC)		03/19/2010	\$37,500	\$15,000
LOF-2	Urban School Performances Laboratory and Communication Project		08/04/2010	\$570,588	\$225,786
LOF-2	Behavioural and Neural Correlates of Perceiving People		02/09/2010	\$250,000	\$100,000
LOF-4	Cardiac Imaging and Hemodynamic Core Facility for Translational Research		08/04/2010	\$1,100,016	\$440,006
LOF-4	Zebrafish Centre for Advanced Drug Discovery: A High Throughput Screening Platform Targeting Cardiovascular Diseases		08/04/2010	\$1,992,554	\$794,217
LOF-4	Development of Viral-Mediated Gene Therapies for Retinal Degeneration		08/04/2010	\$1,992,998	\$797,199
NIF	Scanning Tunneling Spectroscopy (STS) of Molecular Wires and Corrals		03/15/2007	\$770,368	\$308,147
NIF	Large-Scale Impact and High-Velocity Loading and Sensing Facility for Critical Infrastructure		03/15/2007	\$8,071,955	\$3,228,782
NIF	Facility for Advanced Bioacoustophotonics and Biomolecular Microfluidic Photoacoustics		03/15/2007	\$1,682,421	\$661,599
NIF	Molecular Imaging Facility: From Single Proteins to Atomically-Resolved Structural Dynamics		06/28/2009	\$2,505,225	\$1,002,090
NIF	Center for Microsatellite Science and Technology Development and Low-Cost Space Research		06/28/2009	\$10,020,389	\$4,008,198
NIF	BioZone: A Bioengineering Research Facility for Energy, Environmental and Economic Sustainability		06/28/2009	\$6,334,136	\$2,533,654
NIF	Diet, the Digestive Tract, and Disease: the 3-D Centre		06/28/2009	\$13,628,880	\$5,437,276
NIF	Construction of a Centre for Collaborative Interactive Digital Media		06/28/2009	\$6,000,000	\$2,400,000
NIF	Ontario Initiative in Personalized Stem Cell Medicine		06/28/2009	\$24,830,024	\$9,932,011
NIF	Advanced Laboratory for Fluorinated and Other New Substances in the Environment (ALFONSE)		06/28/2009	\$1,780,000	\$712,000
NIF	Centre for Microfluidic Systems in Chemistry and Biology		06/28/2009	\$9,375,200	\$3,749,954
NOF	Critical Accessories for a mass Spectrometry/Proteomics Facility at the Centre for Research in Neurodegenerative Diseases		02/24/2005	\$102,723	\$41,089

<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
NOF	Infrastructure for a Distributed Microsystems Laboratory		\$268,402	\$107,361
NOF	Cities, Health, And Neighbourhood GEomatics (CHANGE) Laboratory		\$176,219	\$70,488
NOF	Molecular Genetics of Mammalian Hematopoietic and Vascular Development		\$452,846	\$181,138
NOF	The Quantitative Biology Laboratory (QBL): Infrastructure for quantitative evaluation of gene expression and regulation		\$477,597	\$191,039
NOF	Laboratory of Colloid and Formulation Engineering		\$273,800	\$109,520
NOF	Thermal Ionization Mass Spectrometer for Planetary Science		\$800,000	\$260,000
NOF	Fast Spectroscopic Techniques and Air-free Equipment for New Developments in Homogeneous Catalysis		\$257,557	\$103,023
NOF	Cross-disciplinary Protein Engineering Laboratory		\$375,000	\$150,000
NOF	Semi-Synthetic Tools to Study Glycosaminoglycans		\$425,118	\$168,219
NOF	Adolescent Depressive Vulnerability through the Lens of Face-to-Face and Day-to-Day Social Interaction		\$148,557	\$59,422
NOF	Autonomic Computing Laboratory		\$731,377	\$292,551
NOF	Laboratory for Forest Genomics		\$500,000	\$200,000
NOF	Infrastructure for Manipulation on the Micro and Nano Scales		\$304,455	\$121,782
NOF	A Real-Time Movement-Dependent Manipulation Approach for Fundamental Motor Control and Rehabilitation Research		\$303,952	\$121,581
NOF	Toronto Research Laboratory for Dendrochronology, Palaeoenvironment, Archaeology and the History of Art		\$426,361	\$140,000
NOF	Household-level Urban Socio-Ecology (HOUSE) Laboratory		\$169,047	\$67,619
NOF	High Performance Computing Infrastructure for Hybrid and Distributed Heuristic Search		\$189,341	\$75,735
NOF	Establishment of a zebrafish aquaculture facility to be used for a molecular and genetic studies of vertebrate embryonic development and cardiovascular biology		\$2,108,617	\$843,449
NOF	Establishment of a molecular biology lab for research into tissue organization and growth control using Drosophila melanogaster as a model organism.		\$893,285	\$357,314
NOF	Laboratory for Scanning 3D Shape and Physics		\$500,000	\$200,000
NOF	Lymph Node Microenvironments and the Regulation of T cell Responses		\$310,000	\$124,000
NOF	Intelligent Sensory Integrated Systems Laboratory		\$252,576	\$101,031
NOF	Facility for Analysis of Vertebrate Development		\$479,403	\$191,761
NOF	Activity-Induced Plasticity of Inhibitory Synapses		\$380,000	\$152,000
NOF	Facility for the Multi-Level Analysis of the Neurobiology of Respiratory Motor Control during Sleep		\$450,800	\$180,320
NOF	Radiopharmaceutical Discovery and Development Laboratory for Translational Cancer Research		\$420,358	\$168,143
NOF	Establishing a Functional Genomics Laboratory to Study the p53 Network using C. Elegans as a Model System		\$637,352	\$254,941
NOF	The Role of Mismatch Repair in Somatic Hypermutation of Antibody Genes		\$306,911	\$122,043
NOF	Corrosion Kinetics and Morphology		\$509,323	\$203,729

<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
NOF	Establishment of a Cell Biology Laboratory for Research into Mammalian Cell Polarity		\$200,514	\$80,145
NOF	Novel Therapeutic Interventions for Bronchopulmonary Dysplasia: Targeting Oxidants and Growth Factors in the Newborn Rat Lung		\$371,677	\$148,670
NOF	Social Cognitive Neuroscience of Attitudes		\$324,827	\$129,929
NOF	Signal transduction and networking studies in plant-pathogen interaction		\$499,982	\$199,950
NOF	Creation of a Laboratory to study Causes and Consequences of Genomic Instability		\$497,828	\$199,031

### ***University of Waterloo***

***Total: 116 \$128,366,131 \$42,223,214***

CRCIF	Solid state electrochemical and materials characterization facility		\$384,454	\$153,138
CRCIF	Facility for Fabrication, Test, and Characterization of Nano-crystalline Silicon Thin Film Transistors and Circuits		\$350,000	\$140,000
CRCIF	Laboratory Facilities for Analysis, Design and Implementation of Communication Algorithms		\$328,336	\$130,659
CRCIF	Infrastructure for Tetherless Computing		\$518,670	\$199,335
CRCIF	Digital Servo-Control System, Automated Pycnometer and Integrated Optical Microscopy-Image Analysis for State-of-the-Art Tube Bending and Hydroforming		\$317,564	\$127,025
CRCIF	Analytical tools for assessing the risk of emerging threats to water quality		\$705,309	\$279,000
CRCIF	Facilities for Research in nano-biomaterials		\$384,209	\$153,702
CRCIF	Molecular Biotechnology Infrastructure for Study of High-Level Recombinant Protein Production and Protein Folding		\$358,511	\$130,895
CRCIF	Research Infrastructure for Quantitative Risk Management at University of Waterloo		\$378,850	\$149,286
CRCIF	Infrastructure for Canada Research Chair in Statistical Methods for Health Research at the University of Waterloo		\$362,604	\$142,792
CRCIF	The Waterloo Health Economics Data Lab (WHEDL) at the University of Waterloo		\$87,228	\$34,891
CRCIF	Sensorimotor Control Laboratory: An Integrative Neuroimaging Approach to Basic Mechanisms and Implications for Stroke Recovery		\$378,455	\$130,130
CRCIF	Sensor and Surveillance Technologies for Pavement and Construction Research		\$625,000	\$250,000
CRCIF	Infrastructure For Quantum Communications Research		\$523,597	\$185,591
CRCIF	Innovation and Technical Entrepreneurship Laboratory		\$57,110	\$22,844
CRCIF	Canada Research Chair in Social Cognition		\$316,840	\$126,750
CRCIF	Resources for Scientific Computing and Visualization		\$335,441	\$132,273
IF	Centre for Advanced Photovoltaic Devices and Systems		\$12,294,913	\$1,385,046
IF	An Experimental and Distributed Laboratory to Sustain Collaborative Work		\$337,290	\$41,945
LEF	Submillimeter Instruments for Astronomy: building on the SCUBA-2 experience.		\$6,772,280	\$1,055,106
LEF	Advanced Joining Facilities for Macro, Micro, and Nano Level Fabrications		\$2,997,814	\$1,183,608

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LEF	Smart Materials Ontario (SMO): Advancing New Functional Materials Technology		06/28/2009	\$7,267,669	\$2,903,866
LEF	Secure Global Information Transport Infrastructure with Flexible Mobility Support		06/28/2009	\$4,826,063	\$1,884,171
LEF	Water Quality Research Platform in Urban and Urbanizing Watersheds		06/28/2009	\$22,139,452	\$8,853,561
LOF	Facility for the Advancement of Underwater Sampling Technology		08/31/2006	\$406,168	\$159,000
LOF	Optimizing osteoporosis diagnosis and management: a multi-faceted osteoporosis research centre		12/21/2006	\$238,765	\$95,506
LOF	State-of-the-Art Facility for the Development of New Biopharmaceuticals and Biomarkers for Stress Detection		12/21/2006	\$300,000	\$120,000
LOF	Enabling Advanced Digital Ergonomics and Shoulder Biomechanics Research		12/21/2006	\$470,630	\$178,035
LOF-1	Rapid Prototyping and Mixed RF/DSP Design of Radio Systems		04/22/2008	\$576,586	\$230,624
LOF-1	MEMS Test and Characterization Laboratory		05/15/2007	\$409,226	\$156,048
LOF-1	Integrating Reaction and Catalyst Characterization		05/15/2007	\$323,878	\$129,551
LOF-1	State-of-the-Art facility for the Study of RNA Structure-Function Relationships.		05/15/2007	\$387,010	\$150,000
LOF-1	Integrated Synthesis/Analysis/Computation Laboratory for Inorganic and Bioinorganic Chemistry		05/15/2007	\$382,515	\$150,000
LOF-1	Laboratory for Nanoparticle Synthesis and Application Development		05/15/2007	\$324,994	\$125,000
LOF-1	Carbon Nanotube Biomaterials		05/15/2007	\$467,618	\$150,000
LOF-1	Innovative Treatments of Obsessive-Compulsive Disorder		05/15/2007	\$136,800	\$54,720
LOF-1	Ultrafast Characterization of Quantum Optoelectronic and Microwave Photonic Devices and Circuits		05/15/2007	\$247,931	\$99,173
LOF-1	Knee Injury: Impact and Tissue Assessment Facility		05/15/2007	\$248,191	\$99,145
LOF-1	Centre for Biophysical Research in Ecosystem Restoration and Rehabilitation		09/04/2007	\$443,689	\$177,475
LOF-1	Cryospheric Remote Sensing Research Facility		09/04/2007	\$628,867	\$243,070
LOF-1	Laboratory for optical quantum computation and communication technologies		09/04/2007	\$373,150	\$130,000
LOF-1	Laboratory for Physical and Thermodynamic Characterization of Novel Nanostructures for Applications in Chemical and Biological Systems		09/04/2007	\$365,000	\$146,000
LOF-1	Quantum heterostructure optoelectronic devices for THz applications		09/04/2007	\$263,088	\$100,000
LOF-1	Multifunctional Nanomaterials Lab: Growth, Analysis and Applications		04/22/2008	\$251,023	\$100,000
LOF-1	Engineering of Advanced Metallic Manufacturing Processes using a Gleeble 3500 Thermomechanical Simulator		04/22/2008	\$587,645	\$200,000
LOF-1	Geomodeling glaciated terrains		04/29/2009	\$250,000	\$100,000
LOF-1	Advanced Scanning Probe Microscopy facility for nanoscale and single molecule biophysics research		04/22/2008	\$560,054	\$180,000
LOF-1	Mass Spectrometer with Liquid Chromatography – to support new solvent free analytical technologies for on-site and in-vivo analysis		04/22/2008	\$688,522	\$270,230

## *Institution / Établissement*

<i>Program / Programme</i>	<i>Project Title / Titre du projet</i>	<i>Principal Investigator / Chercheur principal</i>	<i>Ministry Decision / Décision ministère</i>	<i>Total Costs / Coût total</i>	<i>Max. ORF contribution / Contribution max. du FRO</i>
LOF-1	Expansion of computational infrastructure for 3D simulations of Environmental and Geophysical Fluid Dynamics		04/22/2008	\$278,804	\$93,630
LOF-1	A Low Jitter Testbench for High-Speed Data Converters		08/11/2008	\$138,816	\$50,000
LOF-1	Large area radiation imaging detectors		08/11/2008	\$250,000	\$100,000
LOF-1	Infrastructure to investigate cortical interactions among sensorimotor loci mediating hand movements in focal hand dystonia and control subjects		08/11/2008	\$136,821	\$40,000
LOF-1	Solid-state spin-based quantum information processing		08/11/2008	\$300,256	\$119,998
LOF-1	Virus Containment Suite for the Study of Vector and Vaccine Production in Animal Cells		04/29/2009	\$242,010	\$78,000
LOF-1	Infrastructure to Study Skeletal Muscle Apoptosis and Adaptation during Exercise and Disease		11/07/2008	\$411,027	\$164,400
LOF-1	Vacuum Deposition System for Fabrication of Organic Electronic Devices		04/29/2009	\$381,729	\$150,000
LOF-1	Integrated facility for assessing microbial diversity and function		06/03/2009	\$383,105	\$150,000
LOF-1	Center for Small Scale and Thin Film Mechanical Behaviors		04/29/2009	\$230,000	\$92,000
LOF-1	Vision Physiology and Cell Biology Laboratory		04/29/2009	\$402,712	\$125,000
LOF-1	Subsurface imaging for improved contaminant transport predictions		04/29/2009	\$267,005	\$100,000
LOF-1	Research Infrastructure for Scientific Computing & Visualization		02/09/2010	\$236,148	\$94,295
LOF-1	Evaluation of body composition in health and disease		06/03/2009	\$140,582	\$56,232
LOF-1	Visualization and Biotelematic Environment		06/03/2009	\$455,685	\$179,867
LOF-1	A Parallel Multi-Processor, Multi-Core Environment for Optimization		09/24/2009	\$229,944	\$91,982
LOF-1	Fabrication facility for superconducting quantum devices		09/24/2009	\$506,874	\$164,000
LOF-1	An organism-environment feedback facility		09/24/2009	\$459,878	\$125,000
LOF-1	Analysis and Modelling of the Land-Atmosphere System for Understanding Climate and Air Quality		09/24/2009	\$238,762	\$93,939
LOF-1	Macromolecular Crystallography at Waterloo		03/19/2010	\$427,520	\$171,008
LOF-1	Computer cluster for quantum molecular dynamics simulations: from quantum nanoclusters to biological systems		03/19/2010	\$375,059	\$150,000
LOF-1	Functional DNA and lipid bionanotechnology		08/04/2010	\$320,643	\$124,980
LOF-1	Biomechanics of falls and impact-related injuries		05/10/2010	\$75,008	\$30,000
LOF-1	Facility for testing and operating quantum photonics devices		05/10/2010	\$320,958	\$125,000
LOF-1	A setup for development of ion-nanomaterial and study of electronic cellular systems		05/10/2010	\$228,385	\$75,000
LOF-1	Angle resolved inverse photoemission spectroscopy in strongly correlated electron systems		08/04/2010	\$474,683	\$140,000
LOF-1	The MicroTile Interactivity Project		08/04/2010	\$100,975	\$40,000
LOF-1	Flow cytometer suite for biomaterials and bioengineering research		08/04/2010	\$177,469	\$60,000
LOF-1	Mechanical and spectroscopic properties of nanoscale soft materials		06/28/2011	\$436,907	\$100,000
LOF-1	Experimental channel for river hydraulics		06/28/2011	\$126,815	\$50,000

## Institution / Établissement

Program / Programme	Project Title / Titre du projet	Principal Investigator / Chercheur principal	Ministry Decision / Décision ministère	Total Costs / Coût total	Max. ORF contribution / Contribution max. du FRO
LOF-2	Multimedia production and analysis studio for the study of communication in digital new media.		06/26/2007	\$274,408	\$109,548
LOF-2	Computational and research infrastructure for theoretical neuroscience		05/15/2007	\$378,396	\$151,358
LOF-2	Clinical and Psychophysiological Research Laboratories for Investigating Anxiety Disorders		05/15/2007	\$229,008	\$91,603
LOF-2	Bioimaging system for studying the live transport and targeting of nanomedicines (drugs and delivery systems)		06/26/2007	\$704,221	\$125,000
LOF-2	Quantum Cryptography Test Bed		09/04/2007	\$393,560	\$157,424
LOF-2	Establishing functional magnetic resonance imaging at Grand River Hospital.		04/22/2008	\$923,205	\$361,323
LOF-2	Fundamental Studies and Applications of Tailored Multifunctional Nanosystems		04/22/2008	\$521,345	\$205,000
LOF-2	Test and Measurement Equipment for Low-Power, High-Speed, High-Reliability Integrated Circuit Research Laboratory		08/11/2008	\$369,766	\$145,000
LOF-2	Distributed Generation Seamless Integration into Existing Distribution Systems		04/29/2009	\$435,813	\$150,000
LOF-2	Research Infrastructure to Support a Cluster of Canada Research Chairs (Tier I and Tier II) in Microfluidics, Nanofluidics and Lab-on-a-Chip Technology.		04/29/2009	\$946,193	\$360,000
LOF-2	Computing Cluster for Bioinformatics		03/19/2010	\$287,200	\$114,880
LOF-2	Infrastructure for Tetherless Computing		09/24/2009	\$245,880	\$98,352
LOF-2	An EEG and eye movement monitoring laboratory.		09/24/2009	\$128,278	\$48,197
LOF-3	Islet biology core laboratory to study the metabolic regulation of insulin release		08/11/2008	\$653,914	\$251,487
NIF	Centre for Intelligent Antenna and Radio Systems (CIARS)		03/15/2007	\$12,815,240	\$5,016,637
NIF	Facility for the assessment of engineered rehabilitation systems for infrastructure renewal		06/28/2009	\$1,183,960	\$468,909
NIF	Materials and Manufacturing for Light Weight Automotive Structures and Advanced Occupant Protection		06/28/2009	\$15,981,151	\$3,774,926
NOF	Facility for Research in Piano Design, Technology, and Manufacturing		02/24/2005	\$279,998	\$111,998
NOF	Research facility to study the genetic/physiological determinants of metabolic rate and obesity		07/22/2005	\$478,642	\$191,457
NOF	Electricity Market Simulation and Optimization Laboratory (EMSOL)		02/24/2005	\$392,797	\$145,000
NOF	Micro-Systems Research Center		02/24/2005	\$851,220	\$340,488
NOF	A Facility to Develop Novel Micro Devices and Analysis Tools for Biomedical, Environmental and Safety Applications		07/22/2005	\$496,423	\$193,434
NOF	Investigation of Knee Joint Loading Patterns Following Injury and Their Influence on Articular Cartilage Remodelling		07/22/2005	\$312,251	\$124,900
NOF	Development of a research database in Medieval Studies: a WEB-based, searchable, electronic corpus of Albertus Magnus' complete works		07/22/2005	\$45,275	\$18,110
NOF	Resources for Computational Research Innovation		10/24/2005	\$957,758	\$348,469
NOF	Facility for the Design of Nanometer Integrated Circuits and Design Automation		07/22/2005	\$177,877	\$70,000



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<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
NOF	Center for Rapid Prototyping of Advanced Multi-Scale Systems.		\$846,250	\$320,701
NOF	Laboratory for the characterization and applications of new sources of entanglement.		\$345,893	\$125,000
NOF	Organometallic/Polymer Chemistry Research Laboratory		\$770,768	\$260,378
NOF	Integrated Facility for Gene Discovery and Molecular imaging		\$601,928	\$210,964
NOF	A portable laboratory for studying human attention in the real world.		\$197,319	\$78,927
NOF	High throughput research facility for the study of fatty acids and lipidomics on chronic disease		\$479,949	\$180,000
NOF	Development of "Green" Nano-Technology for Nano-Structured Polymers		\$321,145	\$128,458
NOF	Buildup of a Femtosecond Laser Spectroscopy for Environmental and Biological Studies		\$431,206	\$172,489
NOF	Mobile Experimental Behavioral Lab		\$148,421	\$58,347
NOF	Providing Research Infrastructure for Mathematical Excellence		\$1,576,077	\$630,429
NOF	Creation of a High-Performance Computational Facility for Quantum Chemistry		\$697,120	\$269,424
NOF	Impact of Geological Uncertainty on Achieving Regulatory Compliance Objectives Used to Control Subsurface Waste Disposal or Remediation Projects		\$352,687	\$141,075

### ***University of Windsor***

***Total: 37     \$16,903,271     \$4,925,754***

CRCIF	Catalyst Testing and GPC Facilities		\$342,000	\$101,000
CRCIF	Facility for the development of advanced metal forming processes		\$300,250	\$101,000
CRCIF	Facility for the Research and Development of Automotive Sensors and Sensing Systems		\$270,762	\$101,000
CRCIF	International Health Communication Data Archive and Repository		\$186,924	\$74,770
IF	Large Lake Ecosystems: A facility to quantify and model the impact of multiple stressors		\$5,048,079	\$611,360
LOF	Infrastructure for a Medium-Scale Green Technology Wind Tunnel Research Program		\$250,000	\$100,000
LOF	Acoustic location systems and advanced recording and playback technology for studying communication networks in temperate and tropical birds		\$130,958	\$50,000
LOF	Scientific computing facility for the computational study of ultrafast light-matter interactions		\$125,000	\$50,000
LOF	Viral Preparation/Cell Culture Facility for Investigating Mediators Involved in the Development and Progression of Breast Cancer		\$125,677	\$50,000
LOF	Self-Assembled Monolayers on Ultrasoother Surfaces		\$125,000	\$50,000
LOF	Virtual and In-Person Research Facilities for the Health and Well-being Lab		\$117,218	\$46,888
LOF-1	Channel characterization of emerging wireless communication systems.		\$125,000	\$50,000
LOF-1	Universal Micro Materials Tester		\$125,000	\$50,000

<b><i>Institution / Établissement</i></b>		<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>		
LOF-1	Facility to study the geochemical controls on contaminant transport and molecular scale processes		\$125,000	\$50,000
LOF-1	Advanced infrastructure for research on visual communication in temperate and tropical animals		\$124,998	\$49,998
LOF-1	The Ecological Genomics Laboratory		\$125,000	\$50,000
LOF-1	Facility for investigating hearing mechanisms		\$142,647	\$50,000
LOF-1	Confocal Microscope for Multichannel and Live Imaging		\$320,025	\$50,000
LOF-1	Investigation of Behavior of Wrinkled Pipes and Ship Hulls under Static and Cyclic Loads		\$124,118	\$49,648
LOF-1	Synthetic Macromolecular Chemistry for Well-Defined Advanced Materials		\$120,425	\$48,169
LOF-1	Experimental research hatchery system for studying the evolutionary ecology and conservation of genetic quality in fishes		\$372,936	\$149,095
LOF-1	Environmental and geologic sample preparation and infrared microscopy facility		\$338,822	\$135,528
LOF-1	Infrastructure to Generate Innovative Insights into Novel Risk Factors for Atherothrombotic Diseases		\$502,253	\$198,897
LOF-1	Noiseborder Multimedia Performance Laboratory (NMPL)		\$248,362	\$94,014
LOF-1	Innovation Design Studio and Transformable Manufacturing System		\$1,004,065	\$398,811
LOF-2	The Chemical Tracer Laboratory		\$189,300	\$50,000
LOF-2	The Bioinformatics Laboratory		\$89,524	\$25,706
LOF-2	Environmental Biotechnology Laboratory for the Development of Microbial Conversion Technologies		\$123,937	\$49,575
LOF-2	Facility for Advanced Hybrid Drivetrain Systems		\$447,242	\$178,820
LOF-2	Centre for Molecular Magnetic Materials Research		\$457,055	\$179,222
NIF	Centre for High Efficiency Clean Diesel & Hybrid Powertrain Research		\$3,942,432	\$1,378,000
NOF	Facility Infrastructure for evaluation of single motor unit properties during movement		\$128,351	\$50,281
NOF	Biological irradiation facility		\$106,483	\$41,890
NOF	Density matrix renormalization group simulations of systems in condensed matter physics and quantum chemistry.		\$175,708	\$50,000
NOF	High Performance Computing Cluster for Fuel Cell and Hydrogen Research		\$125,000	\$50,000
NOF	LINUX PC Cluster for Computational Studies and Optimization of Nano-Mechanical and Industrial Systems		\$171,666	\$64,323
NOF	Facility for applied Social Welfare Research		\$126,054	\$47,759
<b><i>Wilfrid Laurier University</i></b>		<b><i>Total: 13</i></b>	<b><i>\$2,473,264</i></b>	<b><i>\$975,070</i></b>
CRCIF	Cold Regions Hydrology Infrastructure		\$252,033	\$100,813
LOF	High-resolution Optical Microscopy and Microspectroscopy System for the Studies of Colloids, Self-assembly, and Advanced Materials		\$67,017	\$24,051
LOF	Environmental Surface Chemistry Studies: Development of Interdisciplinary Approaches for Investigating Interfacial Processes in Environmental Systems		\$126,655	\$50,662

## ***Institution / Établissement***

<b><i>Program / Programme</i></b>	<b><i>Project Title / Titre du projet</i></b>	<b><i>Principal Investigator / Chercheur principal</i></b>	<b><i>Ministry Decision / Décision ministère</i></b>	<b><i>Total Costs / Coût total</i></b>	<b><i>Max. ORF contribution / Contribution max. du FRO</i></b>
LOF	An ultracentrifuge for isolating membranes of chloroplasts and other sub-cellular compartments and for purifying DNA and proteins		08/31/2006	\$103,572	\$41,429
LOF	Infrastructure for Cognition in Action Laboratory		12/21/2006	\$280,066	\$112,023
LOF-1	Insider Trading Database		05/15/2007	\$112,931	\$45,172
LOF-1	The role of adult math talk, language, and gender on mathematical development in children		09/04/2007	\$107,047	\$42,818
LOF-1	Thermal Characterization of New Organic Materials		04/22/2008	\$107,638	\$43,055
LOF-1	Environmental scanning electron microscopy infrastructure for integrative research in plant biodiversity, evolution, and biogeography		11/07/2008	\$193,803	\$77,521
LOF-1	Multi-user Confocal Microscope		11/07/2008	\$350,909	\$128,888
LOF-1	Patch clamp electrophysiology setup for recording neurons in acute brain slices		06/03/2009	\$126,052	\$50,422
LOF-2	Multimodal Imaging Equipment for Cognitive Neuroscience Research		05/15/2007	\$498,026	\$199,210
NOF	Enantioselective Synthesis of Axially Chiral Biaryls. Applications in Asymmetric Synthesis, Total Synthesis and Materials Science.		02/24/2005	\$147,515	\$59,006

## ***York University***

***Total: 40    \$26,749,626    \$8,837,206***

CA	Biophysical Analysis of Viral RNA and Proteins		07/22/2005	\$540,767	\$216,287
CRCIF	Comparative Research of European Capitalism (CREC) Web-based Research Network		02/24/2005	\$420,744	\$168,283
CRCIF	Centre for Translation Studies		02/24/2005	\$107,295	\$42,918
CRCIF	New Media Collaboration Centre (NMCC) to Support Augmented Reality Research, Digital Archives of Canadian Culture and Canadian Digital Policy Initiatives		02/24/2005	\$660,946	\$264,379
CRCIF	Laboratory for Molecular and Cell Biology Research		08/31/2006	\$794,753	\$317,901
IF	A community approach to multiscale air quality modelling and forecasting		12/16/2004	\$5,828,302	\$660,041
LOF	A facility for the biogeographical comparison of the morphology and physiology of invasive plant species.		08/31/2006	\$507,552	\$203,021
LOF	Laboratory for the study of energy balance and metabolic partitioning		08/31/2006	\$579,376	\$226,518
LOF	Intense source of cold positronium for precise measurements of atomic structure and tests of QED.		08/31/2006	\$603,583	\$241,433
LOF	Facility for Fabrication and In-Situ Micromapping of Polymer-Grafted Membrane-Mimetic Surfaces		08/31/2006	\$549,956	\$219,983
LOF	Brain Mechanisms of Selection & Object Representation		08/31/2006	\$592,295	\$236,918
LOF	Infrastructure to support research in the area of organometallic chemistry for the activation of small molecules and for the polymerization of functionalized olefins.		12/21/2006	\$639,020	\$255,608
LOF	Three-dimensional shape perception: how the human visual system uses statistical regularities in natural scenes to solve an underconstrained problem.		12/21/2006	\$381,194	\$152,477
LOF-1	The Cities Research Laboratory [CRL] for Multimedia Projects on World Cities and Globalization		05/15/2007	\$686,879	\$264,808
LOF-1	Comparative Perspectives Database: Understanding Gendered Labour Market Insecurity		05/15/2007	\$457,441	\$159,114

## *Institution / Établissement*

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LOF-1	The role of the cell cycle in skeletal muscle development and disease		05/15/2007	\$457,131	\$182,853
LOF-1	FUTURE CINEMA LAB: New Stories for New Screens in the Digital Age		05/15/2007	\$999,974	\$399,971
LOF-1	New Media Collaboration Centre: Canadian Arts Content Management System and Centre for Digital Policy and Cultural Rights Initiatives		05/15/2007	\$481,873	\$192,749
LOF-1	Understanding the Development and Consequences of Racial Stereotyping: A Social Cognitive Approach		05/15/2007	\$394,826	\$157,930
LOF-1	Face and scene processing: behaviour and neural correlates		05/15/2007	\$527,914	\$211,165
LOF-1	The Orthopaedic Neuromechanics Laboratory (ONMLab)		06/26/2007	\$510,723	\$95,131
LOF-1	A New Protein Biophysics Laboratory at York University		09/04/2007	\$503,530	\$201,412
LOF-1	Infrastructure to support protein X-ray crystallography studies for structural biology research		09/04/2007	\$1,604,795	\$641,992
LOF-1	Molecular and neural basis of autism spectrum developmental disorders		09/04/2007	\$538,419	\$203,494
LOF-1	From perception to memory: population dynamics in local and global neural ensembles		09/04/2007	\$499,990	\$197,526
LOF-1	Acquisition of an infrastructure to study muscle microcirculation in health and diseases		02/09/2010	\$198,150	\$79,260
LOF-1	Cellular and Molecular Neuroendocrinology Laboratory		02/09/2010	\$236,631	\$94,652
LOF-2	Upgrades to Visual-Motor Laboratory for Experimental, Computational, and Applied Neurophysiology		06/26/2007	\$508,960	\$203,584
NIF	Canadian University Biodiversity Consortium – Consortium des universités canadiennes sur la biodiversité		03/15/2007	\$766,882	\$306,753
NOF	Aquatic facility and center for the integrative study of fish physiology and endocrinology		02/24/2005	\$546,223	\$218,489
NOF	The role of sensory information in motor control and learning.		02/24/2005	\$479,162	\$191,665
NOF	Regulation of AGC kinases in Human Disease		06/26/2006	\$533,887	\$213,556
NOF	Telehomecare Research Unit		07/22/2005	\$492,280	\$194,352
NOF	Infrastructure to support research in the areas of bacterial and viral infection		07/22/2005	\$528,858	\$211,543
NOF	The Digital Sculpture Laboratory at York University		10/24/2005	\$503,245	\$201,298
NOF	A facility for long-term limnological and paleoecological research		06/26/2006	\$448,255	\$179,302
NOF	Social Category Activations: Their Effects on Perception and Behaviours Related to Outgroup Category Members and the Self		02/24/2005	\$245,478	\$98,191
NOF	3-D Canopy Measurement and Modeling Facility		02/24/2005	\$237,705	\$83,650
NOF	A facility for the study of plant evolutionary and population genomics		02/24/2005	\$585,335	\$234,134
NOF	Molecular Regulation of Myogenic Progenitor Cells		02/24/2005	\$569,297	\$212,865

## ***Institution / Établissement***

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***1425 Projects / Projets***      ***Totals:***      ***\$2,105,731,127***      ***\$625,961,612***

### ***Program Types***

The Ontario Research Fund Infrastructure Program provides matching grants to Ontario institutions that have received awards from the Canada Foundation for Innovation, through one of these CFI programs:

CA: Career Awards  
CRCIF: Canada Research Chairs Infrastructure Fund  
IF: Innovation Fund  
LEF: Leading Edge Fund  
LOF: Leaders Opportunity Fund  
NIF: New Initiatives Fund  
NOF: New Opportunities Fund

### ***Programmes***

Le Fonds pour la recherche en Ontario – Programme d'infrastructure de recherche verse des subventions de contrepartie aux établissements de la province qui ont reçu des bourses de la Fondation canadienne pour l'innovation, dans le cadre de l'un des programmes suivants :

CA : Programme des bourses de carrière  
CRCIF : Fonds d'infrastructure pour les Chaires de recherche du Canada  
IF : Fonds d'innovation  
LEF: Fonds de l'avant-garde  
LOF: Fonds des leaders  
NIF: Fonds des initiatives nouvelles  
NOF : Fonds de relève