

Réceptiendaires du Concours d'allocation des ressources 2015

| Établissement | Chercheur | Nom du projet | Allocation totale (années-coeurs) | Allocation totale (GPU/année) | Allocation totale (Téraoctets) |
|--------------------------------------|---------------------|--|-----------------------------------|-------------------------------|--------------------------------|
| Acadia University | Richard Karsten | Site Characterization for Tidal Energy in Nova Scotia | 172.8 | 0 | 0 |
| Baycrest Centre for Geriatric Care | Tomáš Paus | Toronto Trans-generational Brain & Body Database TTBBDB | 57.6 | 0 | 45 |
| Brock University | Stuart Rothstein | A quantum Monte Carlo study of the charge carriers in conducting organic polymers | 223 | 0 | 0 |
| Brock University | Ping Liang | Systematic characterization of genome structural variants via large-scale analyses of personal genome data | 92 | 0 | 0 |
| Brock University | Thad Harroun | Coarse-grained large-scale simulation of a lipopolysaccharide membrane | 40 | 5 | 0 |
| Carleton University | Rowan Thomson | Advancing computational radiotherapy physics | 161 | 0 | 0 |
| Centre for Addiction & Mental Health | Mallar Chakravarty | Imaging-genetics using neuroanatomical phenotypes for neuropsychiatric disorders | 360 | 0 | 50 |
| CHU Ste-Justine | Jacques Michaud | Centre de génomique pédiatrique du CHU Sainte-Justine | 0 | 0 | 28 |
| Concordia University | Marius Paraschivoiu | Aerodynamic Simulations of Vertical Axis Wind Turbines | 180 | 0 | 0 |
| Concordia University | Ali Dolatabadi | Numerical Simulation of Multiphase Flows | 395 | 0 | 5 |

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|----------------------|----------------------|---|-----|---|-----|
| Concordia University | Amin Hammad | Performance Analysis of Simulation-based Multi-objective Optimization of Construction Processes Using High Performance Computing | 40 | 0 | 1 |
| Concordia University | Guillaume Lamoureux | Computer modeling of metals in proteins | 327 | 0 | 3 |
| Concordia University | Gilles Peslherbe | Applications of Quantum Chemistry and Molecular Dynamics Simulations to Materials, Solvation and Biophysics | 454 | 0 | 10 |
| Dalhousie University | Christopher Beaumont | Modelling the three-dimensional dynamics of geologic systems: deformation of sub-sea salt and the exhumation of rocks from deep within the earth. | 198 | 0 | 0 |
| Dalhousie University | Katja Fennel | Biogeochemical simulations of coastal marine environments | 136 | 0 | 16 |
| Dalhousie University | Randall Martin | Computational Resources to Interpret Satellite Observations of Atmospheric Composition for Air Quality and Climate Applications | 720 | 0 | 301 |
| Dalhousie University | Julie LaRoche | Assessing the metabolic diversity of marine microbiomes through a targeted metagenomics/metatranscriptomic approach | 175 | 0 | 8 |

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|--|-------------------|---|------|---|-----|
| École Polytechnique | Alain Rochefort | Propriétés électroniques et structurales de matériaux électroactifs | 333 | 0 | 0 |
| École Polytechnique | Remo Masut | Étude de l'impact de l'incorporation de terres rares sur les performances piézoélectriques d'un alliage à base de nitrure d'aluminium | 0 | 0 | 8 |
| École Polytechnique | François Bertrand | Modélisation des écoulements de fluides et de solides pour des procédés du génie chimique | 318 | 0 | 0 |
| École Polytechnique | Eric Laurendeau | Unsteady Aerodynamics of Full-Aircraft Configurations with Control Surfaces | 166 | 0 | 0 |
| Hospital for Sick Children | Michael Wilson | Multi-species analysis of transcription factor binding sites | 0.9 | 0 | 4 |
| Hospital for Sick Children | Jason Lerch | Using Medical Imaging to Understand the Relationship Between Genetics, Development and Disease | 0 | 0 | 21 |
| Hospital for Sick Children | John Rubinstein | Electron cryomicroscopy of macromolecular machines | 284 | 0 | 0 |
| Hospital for Sick Children | John Parkinson | Functional Interrogation of Microbiomes in Health and Disease | 582 | 0 | 0 |
| Hospital for Sick Children | Régis Pomès | Large-Scale Computational Studies of Biomolecular Structure and Function | 8000 | 5 | 505 |
| Institut National de la Recherche Scientifique | Steve MacLean | Simulations of extreme laser light source interaction with matter | 1350 | 0 | 60 |
| Laurentian University | Chris Jillings | DEAP-3600 Analysis and Simulation | 187 | 0 | 420 |

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|-----------------------|---------------------|---|-------|---|-----|
| Laurentian University | Ralf Meyer | Molecular-Dynamics Simulations of Materials on Intel Xeon Phi Processors | 0 | 7 | 3 |
| McGill University | Eric Galbraith | Quantifying the global marine ecosystem | 301.5 | 0 | 0 |
| McGill University | Bruno Tremblay | Vertical ocean heat and nutrient flux in the Arctic Ocean with application to Arctic climate change | 84 | 0 | 10 |
| McGill University | Srikar Vengallatore | Design of Resonant Nanomachines for Applications in the Classical and Quantum Regimes | 139.5 | 0 | 0 |
| McGill University | Daniel Kirshbaum | Large-eddy simulation of topographically forced convective clouds | 49.5 | 0 | 3 |
| McGill University | Peter Bartello | Atmospheric and oceanic mixing by rotating stratified turbulence | 216 | 0 | 0 |
| McGill University | Gil Holder | South Pole Telescope Data Analysis and Simulations | 103.5 | 0 | 0 |
| McGill University | Siva Nadarajah | Unstructured High-Order Schemes for LES and Adjoint-Based Optimization of Multistage Turbomachinery | 270 | 0 | 0 |
| McGill University | Sylvain Baillet | The role of nested oscillations in shaping long-range coupling in the human brain. | 126 | 0 | 0 |
| McGill University | Yi Huang | High performance computing and analysis for the Earth radiation energy budget research | 55 | 0 | 180 |

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|-------------------|--------------------|---|------|---|-----|
| McGill University | Celia Greenwood | Development of statistical analysis methods for genetic and genomic data | 38 | 0 | 0 |
| McGill University | David Straub | Effects of near-inertial motion on larger scale ocean circulation | 63 | 0 | 60 |
| McGill University | Kirk Bevan | Computational Design of Nanoelectronic Materials | 108 | 0 | 3 |
| McGill University | Jacek Majewski | Next Generation Sequencing Applications in Human Health | 150 | 0 | 300 |
| McGill University | Tomi Pastinen | High-throughput assessment of genetic and epigenetic population variation | 36 | 0 | 190 |
| McGill University | Nicolas Moitessier | Development of computational methods for drug discovery | 58 | 0 | 0 |
| McGill University | Erwin Schurr | Host genetics of mycobacterial disease | 0 | 0 | 17 |
| McGill University | Sangyong Jeon | Hard and Soft Probes of Quark Gluon Plasma in Relativistic Heavy Ion Collisions | 1160 | 0 | 260 |
| McGill University | Guillaume Bourque | Large-scale processing and sharing of genomic and genetic data | 942 | 0 | 620 |
| McGill University | Hong Guo | Quantum transport modeling of nanoelectronic devices | 2030 | 0 | 0 |
| McGill University | Ioannis Ragoussis | Optimization of single cell exome and genome sequencing technology | 218 | 0 | 108 |
| McGill University | Nada Jabado | Discovery of genetic alterations in pediatric brain tumors | 0 | 0 | 85 |

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|-------------------|--------------------------|---|------|---|-----|
| McGill University | Claudia L. Kleinman | Computational approaches for cancer genomics | 0 | 0 | 50 |
| McGill University | Victoria Kaspi | Large-Scale Searches for Radio Pulsars, RRATs and Fast Radio Bursts | 324 | 0 | 10 |
| McGill University | Constantin Polychronakos | A genome-wide search for exonic polymorphisms that affect translational efficiency | 0 | 0 | 4 |
| McGill University | Man Kong Yau | Improving the forecasting of precipitation | 135 | 0 | 60 |
| McGill University | Timothy Merlis | Atmospheric circulations and climate change | 45 | 0 | 9 |
| McGill University | Nikolas Provatas | Computational Modeling of Microstructure Evolution in Non-Equilibrium Processes in Metal Alloys | 527 | 0 | 24 |
| McGill University | Jaime Palter | Ocean circulation changes, radiative feedbacks and transient climate change | 47 | 0 | 1 |
| McGill University | Jun Song | Nanoscale Mechanics and Physics of Defects in Materials | 2071 | 0 | 8 |
| McGill University | Gregory Mark Lathrop | Data analysis and interpretation for large-scale genomics projects | 269 | 0 | 290 |
| McGill University | Yajing Liu | Earthquake rupture dynamics models in tectonic and glaciated environments | 55 | 0 | 18 |
| McGill University | Jeffrey Bergthorson | High Fidelity Simulations of Pollutants Formation in Turbulent Reacting Flows For Model Development | 204 | 0 | 0 |
| McGill University | Alain Dagher | Neuro-behavioral model of weight gain | 2 | 0 | 0 |

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|-------------------------------------|-------------------|--|-------|----|----|
| McGill University | Luc Mongeau | Aero-Acoustics & Bio-Engineering Simulations Using Advanced Numerical Methods and High Performance Computing | 148 | 20 | 0 |
| McGill University | Wagdi Habashi | Multi-physics Analysis and Design of Aerospace Systems | 779 | 0 | 0 |
| McGill University | Shirin Enger | Monte Carlo track structure applications in microdosimetry and radiation response | 127 | 0 | 0 |
| McMaster University | Ralph Pudritz | Simulating the formation of star clusters in galaxies | 175 | 0 | 0 |
| McMaster University | Paul Ayers | Tools for Modelling Molecular Structures and Reactivity | 310.5 | 0 | 0 |
| McMaster University | Hugh Couchman | MUGS2 | 360 | 0 | 0 |
| McMaster University | James Wadsley | Molecular Cloud Formation in Galactic Discs | 576 | 0 | 0 |
| McMaster University | Alison Sills | Sizes of Globular Clusters in a Variety of Galactic Tidal Fields | 59 | 0 | 2 |
| McMaster University | Giuseppe Melacini | Molecular Dynamics Simulation of Biomolecular Complexes Controlling Eukaryotic cAMP-Signaling | 163 | 0 | 0 |
| McMaster University | Erik Sorensen | Computational Quantum Materials | 1100 | 0 | 0 |
| McMaster University | Stephen Tullis | Wind turbine aerodynamics | 44 | 0 | 10 |
| McMaster University | Jeffrey Hoyt | Molecular Dynamics Simulations of Interfaces and Phase Transformations in Metals and Alloys | 83 | 0 | 0 |
| Memorial University of Newfoundland | Erika Merschrod | Optical response of sensor films | 72 | 0 | 0 |

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|-------------------------------------|--------------------|---|------|---|----|
| Memorial University of Newfoundland | Jahrul Alam | The validation of a new wavelet based multiscale modelling approach for atmospheric turbulence | 140 | 0 | 0 |
| Memorial University of Newfoundland | Travis Fridgen | Structures, Energetics, and Reactions of Gaseous Self Assembled Ionic Complexes such as Guanine Quartets and Quadruplexes Stabilized by Metal Cations | 43 | 0 | 0 |
| Memorial University of Newfoundland | Valerie Booth | Structural Models for Lung Surfactant Protein B | 218 | 0 | 1 |
| Memorial University of Newfoundland | Christopher Rowley | Simulation and Method Development for Biophysical Chemistry | 1200 | 0 | 0 |
| Memorial University of Newfoundland | Paris Georghiou | Computational studies on calixarene host-guest bindings. | 12 | 0 | 0 |
| Memorial University of Newfoundland | Entcho Demirov | Model simulations of decadal and multidecadal climate dynamics of the Subpolar North Atlantic Ocean | 73 | 0 | 3 |
| Mount Sinai Hospital | Laurence Pelletier | Quantitative Genomics, Proteomics and Cell Biology. | 0 | 0 | 0 |
| Nova Scotia Agricultural College | Hossain Farid | Early immune response of mink to infection by the Aleutian mink disease virus | 14 | 0 | 0 |
| Ouranos | Anne Frigon | Un ensemble de simulations climatiques régionales à très haute résolution pour le Québec et pour la communauté scientifique internationale | 345 | 0 | 75 |

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|---|-------------------|---|------|---|-----|
| Perimeter Institute for Theoretical Physics | Luis Lehner | Modeling General Relativistic Astrophysics: Neutron Stars and Black Holes | 409 | 0 | 15 |
| Queen's University | Art McDonald | DEAP and other SNOLAB Particle Astrophysics | 0 | 0 | 0 |
| Queen's University | Tucker Carrington | Refining a potential surface for methane and computing a rovibrational spectrum of CH ₅ ⁺ | 27 | 0 | 0 |
| Queen's University | Nicholas Mosey | Simulations of Molecules and Materials Under High Stresses | 362 | 0 | 0 |
| Queen's University | Tomas Babak | Characterizing regulatory drivers of cancer and major depressive disorder | 35 | 0 | 10 |
| Queen's University | Ugo Piomelli | Numerical simulations of turbulent flows | 645 | 0 | 120 |
| Queen's University | Peter Davies | Molecular dynamics studies of protein-water interactions and protein-inhibitor complexes | 11 | 0 | 0 |
| Royal Military College of Canada | Xiaohua Wu | Very-large-scale, data-intensive direct numerical simulation of aeronautical fluid mechanics problems | 407 | 0 | 100 |
| Ryerson University | Seth Dworkin | Parallel Simulation and Model Development for Combustion Generated Soot Particle Emissions | 3000 | 0 | 0 |
| Saint Mary's University | Kai Ylijoki | Electronic Structure and Reactivity Studies of Novel Metalloclusters | 5 | 0 | 0 |
| Simon Fraser University | George Kirczenow | Theoretical Studies of Nanoscale Systems | 270 | 0 | 0 |
| Simon Fraser University | Peter Borwein | IRMACS | 150 | 0 | 0 |

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|-------------------------|-------------------|---|-------|----|-----|
| Simon Fraser University | Michael Eikerling | Computational Modeling of Electrochemical Materials for Energy Conversion and Storage | 134.4 | 0 | 0 |
| Simon Fraser University | Anoop Sarkar | Machine Learning for Statistical Machine Translation from Large Scale Data | 12 | 0 | 30 |
| Simon Fraser University | Noham Weinberg | Theoretical studies of kinetic effects of high pressure | 109 | 0 | 15 |
| Simon Fraser University | Mirza Faisal Beg | Early Detection of Alzheimer's and discrimination from other dementias using high dimensional morphometric features | 336 | 0 | 350 |
| Simon Fraser University | Fiona Brinkman | Public health and environmental monitoring genomics and metagenomics | 164 | 0 | 60 |
| Simon Fraser University | Glen Tibbits | Molecular dynamics simulation of cardiac troponin | 355 | 0 | 0 |
| Université de Montréal | Rémy Sauvé | Identification d'agents potentiateurs des canaux ioniques CFTR et KCa3.1 par criblage virtuel de banques de petites molécules | 63 | 0 | 0 |
| Université de Montréal | Normand Mousseau | Simulations de systèmes complexes : des matériaux aux protéines amyloïdes | 639 | 0 | 0 |
| Université de Montréal | Yoshua Bengio | Deep Learning Algorithms | 200 | 10 | 26 |

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|------------------------|---------------------------|--|-------|---|-----|
| Université de Montréal | Paul Charbonneau | Simulation magnétohydrodynamique de la convection solaire | 648 | 0 | 3 |
| Université de Montréal | Laurent Lewis | Physical properties of advanced materials - from the atom to large-scale structures | 151.2 | 0 | 0 |
| Université de Montréal | Michel Côté | Calculs de structure électronique pour l'étude de matériaux quantiques | 607.5 | 0 | 0 |
| Université de Montréal | Pierre Lafaye de Micheaux | Statistical tools for imaging-genetics | 72 | 0 | 0 |
| Université de Montréal | Luis Barreiro | Mapping eQTLs that affect susceptibility to bacterial infections. | 45 | 0 | 20 |
| Université de Montréal | Philip Awadalla | Medical and Population Genomics | 294 | 0 | 40 |
| Université de Montréal | Patrick Cossette | Personalized medicine in Epilepsy | 0 | 0 | 45 |
| Université de Montréal | Guy Rouleau | High Throughput Sequencing | 253 | 0 | 90 |
| Université de Montréal | Daniel Sinnott | Genetic and genomic determinants of childhood leukemia | 57 | 0 | 50 |
| Université de Montréal | Guillaume Lettre | Next-generation DNA sequencing in cardiovascular diseases | 0 | 0 | 120 |
| Université de Montréal | Etienne Yergeau | Plant microbiome engineering | 40 | 0 | 34 |
| Université de Montréal | Joelle Pelletier | Simulating the dynamics of engineered beta-lactamase enzymes: expanding the NMR-accessible timescale | 240 | 0 | 5 |
| Université de Montréal | Timothée Poisot | Understanding the spatial dynamics of species interactions | 0 | 0 | 0 |

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|--------------------------|--------------------|---|-------|---|----|
| Université de Montréal | Nazzareno D'Avanzo | Computational Studies of Ion Channels in Lipid Bilayers and Detergent Micelles | 600 | 0 | 65 |
| Université de Montréal | Jacques Drouin | Genetic and epigenetic mechanisms of gene regulation | 0 | 0 | 5 |
| Université de Montréal | Radu Iftimie | Molecular mechanism of acid-base reactions in chemistry and biochemistry | 477 | 0 | 0 |
| Université de Montréal | Marie-Pierre Dubé | Pharmacogenomics Research | 145 | 0 | 0 |
| Université de Montréal | Hervé Philippe | Phylogénomique des Eucaryotes et usage des codons chez les virus de Mammifères | 1199 | 0 | 1 |
| Université de Sherbrooke | Pierre Harvey | Polymers and molecular assemblies for photonic applications | 209 | 0 | 0 |
| Université de Sherbrooke | David Sénéchal | Quantum cluster methods for strongly correlated solids | 100 | 0 | 0 |
| Université de Sherbrooke | Martin Aubé | Modélisation de la contribution et sensibilité à la pollution lumineuse pour plusieurs sites internationaux | 90 | 0 | 0 |
| Université de Sherbrooke | Alexandre Morin | Simulations Monte Carlo | 130.5 | 0 | 1 |
| Université de Sherbrooke | Elijah Van Houten | Elastography: Imaging Elastic Properties in Soft Tissue | 72 | 0 | 0 |
| Université de Sherbrooke | Noureddine Atalla | Modélisation de la réponse vibroacoustique et aéroacoustique de structures complexes multimatériaux | 100 | 0 | 5 |

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| Université de Sherbrooke | Hugo Larochelle | Réseaux de neurones profonds pour données structurées | 375 | 20 | 0 |
| Université de Sherbrooke | André-Marie Tremblay | High temperature superconductors and other materials with strong electronic correlations | 1428 | 0 | 3 |
| Université de Sherbrooke | Claude Legault | Computational Organic Chemistry : Understanding the origin of selectivity | 33 | 0 | 0 |
| Université de Sherbrooke | Pierre Proulx | Mathematical modeling of multiphase reactors | 0 | 0 | 1 |
| Université de Sherbrooke | Claude Bourbonnais | Application du groupe de renormalisation aux propriétés électroniques et structurales des conducteurs organiques | 30 | 0 | 0 |
| Université de Sherbrooke | Pierre-Étienne Jacques | Genomics and Genetics data analysis | 105 | 0 | 0 |
| Université de Sherbrooke | Andre Dieter Bandrauk | Attosecond Science and Laser Control of Quantum Electronics | 5280 | 0 | 100 |
| Université de Sherbrooke | Armand Soldera | Regard moléculaire des phénomènes mésoscopiques au sein de la matière molle | 324 | 0 | 11 |
| Université de Sherbrooke | Pierre Lavigne | Étude du paysage conformationnel et énergétique du récepteur AT1 et de la liaison de ligands biaisés | 0 | 0 | 0 |
| Université de Sherbrooke | Maxime Descoteaux | Modern diffusion MRI pipelines evaluation | 0 | 0 | 0 |
| Université de Sherbrooke | Stéphane Moreau | Direct noise predictions for transport applications | 2063 | 0 | 60 |
| Université du Québec à Montréal | Laxmi Sushama | Regional climate modelling and process studies | 878 | 0 | 320 |

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|---------------------------------|------------------|---|-------|---|----|
| Université du Québec à Montréal | Anne de Vernal | Arctic and subarctic environments under "warm" climate conditions | 38 | 0 | 5 |
| Université du Québec à Montréal | Alessandro Forte | Numerical Modelling of Thermal Convection in the Earth's Mantle | 483 | 0 | 0 |
| Université du Québec à Montréal | Pierre Gauthier | Application of data assimilation to model validation | 81 | 0 | 45 |
| Université Laval | Christian Gagné | Ingénierie de systèmes intelligents distribués | 67.5 | 0 | 0 |
| Université Laval | Michel Piché | Accélération d'électrons à l'aide d'impulsions laser ultrabrèves et fortement focalisées à polarisation radiale | 115 | 0 | 0 |
| Université Laval | Luc Beaulieu | Effet des hétérogénéités dans les calculs de dose en radiothérapie, en imagerie et en thérapie interne | 189 | 0 | 0 |
| Université Laval | Faiçal Larachi | Collector's selection and optimization to account for ores mineralogy in flotation processes | 54 | 0 | 0 |
| Université Laval | Guy Dumas | CFD for green energy production systems | 274.5 | 0 | 22 |
| Université Laval | Hugo Martel | Formation and evolution of galaxies. | 126 | 0 | 0 |
| Université Laval | Marcel Babin | Estimation of particulate organic carbon in the Mackenzie River plume using MODIS: time series analysis | 30 | 0 | 10 |
| Université Laval | Arnaud Droit | Computational biology resources for Early Detection of Breast Cancer | 63 | 0 | 36 |

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|---------------------------|-------------------|---|-------|---|-----|
| Université Laval | Claire Deschênes | Numerical and experimental investigations of low-head turbines hydrodynamic for generation of greener hydro-electricity | 319.5 | 0 | 0 |
| Université Laval | André Fortin | Chaire de calcul scientifique de haute performance | 50 | 0 | 0 |
| Université Laval | Jacques Corbeil | metagenomic and drug design using machine learning approaches | 504 | 0 | 85 |
| Université Laval | Patrick Lagüe | Computational studies of the mechanism of action of different proteins playing key roles biological processes | 212 | 0 | 0 |
| Université Laval | Louis Bernatchez | Genome assembly and annotation of three fish species | 43 | 0 | 0 |
| Université Laval | Ermanno Borra | Recherche de lentilles gravitationnelles par l'autocorrélation d'intensité | 0 | 0 | 20 |
| Université Laval | David Ardia | Bayesian Prediction of Market Risk Using Regime-Switch Garch Models | 26 | 0 | 0 |
| University Health Network | Frances Skinner | Neuron and Network Models in Hippocampus | 350.1 | 0 | 4.5 |
| University of Alberta | Lesley Harrington | Micro-CT of archaeological human dentitions from Later Stone Age sites in South Africa | 0 | 0 | 15 |
| University of Alberta | Gane Ka-Shu Wong | 1000 Plants and "Viral Discovery" | 67.5 | 0 | 1 |
| University of Alberta | Richard Marchand | Spacecraft - environment modelling | 315 | 0 | 7 |
| University of Alberta | Duane Szafron | Computer Poker Research 2014 | 540 | 0 | 21 |

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|-----------------------|------------------|---|-------|----|----|
| University of Alberta | Martyn Unsworth | 3-D imaging of Earth structure using magnetotellurics | 86.4 | 0 | 0 |
| University of Alberta | Andrew Bush | Regional climate modeling with applications to alpine glaciers in the Canadian Cordillera, the Andes, and the Himalaya | 0 | 0 | 0 |
| University of Alberta | Moritz Heimpel | Modelling planetary fluid flow and magnetic field generation | 288 | 0 | 16 |
| University of Alberta | Alex Brown | Designing new biofluorophores and materials | 216 | 0 | 0 |
| University of Alberta | Michael Houghton | Design of Highly Specific and Effective Viral Polymerase Inhibitors by Screening for Off-Target Interactions with Human Polymerases | 245.7 | 0 | 2 |
| University of Alberta | Gino DiLabio | New Density-Functional Theory Based Methods for the Simulation of Nanosystems | 200 | 0 | 0 |
| University of Alberta | Mathieu Dumberry | Quasi-Geostrophic models of convection in planetary interiors | 72 | 0 | 0 |
| University of Alberta | Satyapal Rathee | Radiation Dose Calculation in inhomogenous media with applied magnetic field | 43.2 | 0 | 0 |
| University of Alberta | Darren Grant | IceCube data analysis and detector upgrade developments | 632 | 70 | 83 |
| University of Alberta | Natalia Ivanova | Violent stellar interactions. | 0 | 38 | 0 |

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|-----------------------|-------------------|--|-----|---|----|
| University of Alberta | Yunjie Xu | Spectral Signatures of Chirality and Chirality Recognition | 156 | 0 | 0 |
| University of Alberta | Yutaka Yasui | GWAS Allele-Specific Gene-Level Logic Regression Analysis | 31 | 0 | 0 |
| University of Alberta | Martin Mueller | Advancing Parallel Depth-first Monte Carlo Tree Search and its Applications | 68 | 0 | 0 |
| University of Alberta | Paul Stothard | Using whole genome sequencing to develop more effective tools for cattle breeding | 3 | 0 | 55 |
| University of Alberta | Tian Tang | Molecular Modeling of Materials | 131 | 0 | 0 |
| University of Alberta | Carsten Krauss | Astroparticle Physics with SNO+ and PICO | 146 | 0 | 0 |
| University of Alberta | Robert Fedosejevs | Laser Fusion Energy – Fast Ignition and Shock Ignition | 270 | 0 | 0 |
| University of Alberta | Robert Driver | Disproportionate Collapse Resistance of Steel Structures | 65 | 0 | 0 |
| University of Alberta | Witold Krzymien | Efficient Signal Processing and Radio Resource Management for Broadband Multiple-Antenna Heterogeneous MIMO Cellular Networks | 135 | 0 | 0 |
| University of Alberta | Changxi Li | Identifying functional SNPs to enhance genomic prediction accuracy for feed efficiency and carcass merit traits in beef cattle | 64 | 0 | 0 |

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|-----------------------|------------------|---|------|----|----|
| University of Alberta | Thian Yew Gan | Climate change impact on water levels of the Mackenzie River and extreme storms for Urban Watersheds of Western Canada | 427 | 0 | 36 |
| University of Alberta | Sushanta Mitra | High Resolution Simulations of Droplet Coalescence in Transient Shear Flow | 0 | 28 | 5 |
| University of Alberta | Paul Myers | High Resolution Ocean Modelling | 64 | 0 | 1 |
| University of Alberta | Erik Rosolowsky | High-Resolution Calibrated Simulations of Star Formation | 78 | 0 | 6 |
| University of Alberta | Antti Arppe | 21st century tools for indigenous languages | 0 | 0 | 1 |
| University of Alberta | Mauricio Sacchi | Seismic Data Processing, Reconstruction, Imaging and Inversion | 59 | 0 | 0 |
| University of Alberta | Joan Greer | folkwaysAlive! | 0 | 0 | 16 |
| University of Alberta | Robert Wolkow | Investigation of silicon atomic states for novel electronic devices | 397 | 0 | 0 |
| University of Alberta | Andriy Kovalenko | Multiscale theory, modeling, and simulation for rational design in nanochemistry, nanoelectronics, nanomaterials, energy, and health applications | 1200 | 0 | 22 |
| University of Alberta | Russell Greiner | Computational Mass Spectrometry for Automated Metabolite Identification | 145 | 0 | 0 |
| University of Alberta | Benjamin Tucker | Creating a database and modeling the production and recognition of spontaneous speech | 0 | 0 | 1 |

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|--------------------------------|--------------------|---|-------|---|----|
| University of Alberta | Michael Bowling | Investigating General Competency in Sequential Decision-Making | 158 | 0 | 0 |
| University of Alberta | Andriy Nahachewsky | Ukrainian Cultural Heritage Repository UCHR | 0 | 0 | 45 |
| University of Alberta | khaled barakat | Atomistic modeling for cardiac ion channels blockade | 243 | 0 | 0 |
| University of British Columbia | Gren Patey | Molecular Level Simulations of Complex Physical Systems | 540 | 0 | 0 |
| University of British Columbia | Holger Hoos | Programming by Optimisation: Automated Configuration and Selection of Algorithms for Challenging Computational Problems | 540 | 0 | 0 |
| University of British Columbia | Leonard Foster | Protein complex atlas of mouse tissues | 0 | 0 | 8 |
| University of British Columbia | Quentin Cronk | PopCan: large scale genomic research on poplar | 0 | 0 | 35 |
| University of British Columbia | Steven Plotkin | Computational approaches to protein misfolding, protein evolution, and lead compound design | 252 | 0 | 0 |
| University of British Columbia | Philip Austin | Large eddy simulations of cloud entrainment and detrainment | 100.8 | 0 | 0 |
| University of British Columbia | Matthias Militzer | Quantum mechanical/molecular mechanical simulations of grain boundaries | 52.2 | 0 | 0 |
| University of British Columbia | Ingrid Stairs | Renewal of Radio Telescope Pulsar Data Repository - 2014 | 0 | 0 | 10 |

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|--------------------------------|-------------------------|---|-----|----|-----|
| University of British Columbia | Joseph Henrich | The co-evolution of brain size and cultural complexity: explaining the human brain expansion during the Pleistocene | 81 | 0 | 0 |
| University of British Columbia | Joerg Rottler | Multiscale simulations of the mechanical properties of nanonstructured polymers | 59 | 0 | 0 |
| University of British Columbia | Ian Frigaard | Multi-phase flows in complex fluids and industrial applications | 176 | 0 | 4 |
| University of British Columbia | Kendal Bushe | Model Development for Numerical Simulation of Turbulent Combustion | 178 | 0 | 0 |
| University of British Columbia | Douglas Bryman | Rare Decay Experiments | 37 | 0 | 270 |
| University of British Columbia | James Little | Large Scale Human Pose Estimation with Deep Visual Features | 55 | 14 | 0 |
| University of British Columbia | Susan Allen | Coupled Ocean Models: Salish Sea and Arctic Ocean | 140 | 0 | 0 |
| University of British Columbia | Matthew Choptuik | Numerical Relativity | 242 | 5 | 35 |
| University of British Columbia | Loren Rieseberg | Genome Assemblies of Compositae Crops and Weeds | 103 | 0 | 0 |
| University of British Columbia | Robert Hancock | Bioinformatics Strategies to Combat Inflammation | 0 | 0 | 9 |
| University of British Columbia | Ludovic Van Waerbeke | Weak Lensing N-body Simulations for KiDS and RCS2 Surveys | 0 | 0 | 70 |
| University of British Columbia | Steven Hallam | Global scale metabolic pathway reconstruction from environmental genomes | 262 | 0 | 0 |
| University of British Columbia | Alexandre Bouchard-Côté | High-resolution evolutionary modelling | 84 | 0 | 0 |

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|-----------------------|---------------------|---|------|----|-----|
| University of Calgary | Tom Ziegler | The development of new density functional based methods and their application to catalysis | 315 | 0 | 0 |
| University of Calgary | Peter Vize | Xenbase genomic systems | 0 | 0 | 10 |
| University of Calgary | Carey Williamson | Backup Storage for ELISA Networking Lab | 0 | 0 | 6 |
| University of Calgary | Peter Tieleman | Computational studies of biological membranes | 7980 | 5 | 180 |
| University of Calgary | Marie Fraser | Off-Site Storage of Crystallographic Data for Structural Biology | 0 | 0 | 2 |
| University of Calgary | Arvi Rauk | Peptide-Peptide and Peptide-Metal interactions related to Alzheimer's disease | 442 | 0 | 20 |
| University of Calgary | Craig Johansen | Simulation of High-Speed Compressible Flows | 491 | 0 | 0 |
| University of Calgary | Sergei Noskov | Multi-Scale Models of Solute Transport Across Cell Membranes | 2720 | 10 | 65 |
| University of Calgary | Peter Kusalik | Molecular simulations of crystallization processes, interfaces, and OH* behaviour in condensed phases | 560 | 0 | 5 |
| University of Calgary | Dennis Salahub | Towards the multiscale modeling of biocatalytic systems | 1344 | 0 | 0 |
| University of Calgary | Justin MacCallum | Physics-based approaches to integrative structural biology and protein design. | 85 | 45 | 1 |
| University of Calgary | Zhangxing John Chen | Reservoir Modelling and Simulation | 344 | 0 | 4 |
| University of Calgary | Eric Donovan | Remote Sensing the Near Earth Space Environment | 0 | 0 | 120 |

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|--------------------------|----------------------|---|-----|---|----|
| University of Guelph | Susan Brown | 30TB Storage for the Canadian Writing Research Collaboratory | 0 | 0 | 1 |
| University of Lethbridge | Stacey Wetmore | DNA Damage: The Formation of Bulky DNA Adducts | 0 | 0 | 36 |
| University of Lethbridge | Hans-Joachim Wieden | Identification of allosteric regulators and signal transmission pathways in ribosome-dependent molecular switches | 44 | 5 | 13 |
| University of Manitoba | Scott Ormiston | Computational Fluid Dynamics Modelling of Film Condensation, Discharging Two-Phase, and Supercritical Fluid Flows | 76 | 0 | 3 |
| University of Manitoba | David Barber | Nucleus for European Modelling of the Ocean NEMO and its use in the ArcticNet Integrated Regional Impact Study IRIS process | 26 | 0 | 8 |
| University of Manitoba | Vladimir Okhmatovski | Parallel Fast Higher-Order Solution of Complex Large Scale Electromagnetic Scattering Problems via Locally Corrected Nyström Discretization of CFIE | 136 | 0 | 0 |
| University of Manitoba | Jesko Sirker | Quantum Dynamics out of Equilibrium | 379 | 0 | 0 |
| University of Manitoba | David Kuhn | Direct Numerical Simulation of Physiological Blood Flow in Abdominal Aortic Aneurysms | 25 | 0 | 0 |

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|---|------------------------|---|-----|---|-----|
| University of Manitoba | H. Georg Schreckenbach | Quantum Chemistry Applied to Diverse Energy and Materials Problems | 159 | 0 | 0 |
| University of Manitoba | Bing-Chen Wang | High-Performance Numerical Simulation of Turbulent Flow and Dispersion | 273 | 0 | 0 |
| University of Manitoba | Mahmoud Torabi | Big data: complex mixed models with applications to spatio-temporal and small area estimation | 255 | 0 | 0 |
| University of Manitoba | Michelle XiaoQing Liu | Genetic analysis of autism spectrum disorders | 0 | 0 | 28 |
| University of Northern British Columbia | Brian Menounos | High Performance Computing Allocation Request to Support Cryospheric Science | 55 | 0 | 100 |
| University of Ontario Institute of Technology | Isaac Tamblyn | Structure of the electrode-water interface - carbon based materials | 611 | 0 | 0 |
| University of Ottawa | Tom Woo | Virtual Screening of Advanced Materials for Clean Energy Applications | 342 | 0 | 15 |
| University of Ottawa | Thomas Brabec | Ab initio modelling of light-matter interaction | 370 | 0 | 5 |
| University of Ottawa | Lora Ramunno | Computational electrodynamics for nanoscale nonlinear laser-matter interaction | 890 | 0 | 0 |
| University of Saskatchewan | Yuanming Pan | Theoretical modeling of paramagnetic defects in minerals and other materials | 280 | 0 | 0 |

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|----------------------------|--------------------|--|-------|---|----|
| University of Saskatchewan | Doug Degenstein | Atmospheric Species Retrievals From Limb Scattered Sunlight Data Collected by the Canadian OSIRIS Satellite Instrument | 270 | 0 | 0 |
| University of Saskatchewan | Howard Wheeler | Saskatchewan River Basin: a large scale observatory for new water science | 0 | 0 | 1 |
| University of Saskatchewan | Raymond Spiteri | Towards real-time heart simulation | 115.2 | 0 | 0 |
| University of Saskatchewan | John Tse | Computational Materials Science | 423 | 0 | 0 |
| University of Saskatchewan | Barbara Szpunar | Modeling Properties of Nuclear Materials | 108 | 0 | 10 |
| University of Saskatchewan | Kathryn McWilliams | SuperDARN International Data Distribution Facility | 0 | 0 | 35 |
| University of Saskatchewan | Richard Bowles | Theory and Simulation of Soft Condensed Matter | 87.3 | 0 | 6 |
| University of Saskatchewan | Chris Soteris | Lattice models of polymer entanglements and applications to DNA topology | 57.6 | 0 | 26 |
| University of Saskatchewan | Alexander Moewes | Probing new materials with Density Functional calculations and synchrotron-based spectroscopy | 184.5 | 0 | 1 |
| University of Saskatchewan | Jerzy Szpunar | First Principles Simulation of Thermal Conductivity | 86.4 | 0 | 0 |
| University of Saskatchewan | Tomasz W. Wysocki | Biomedical Imaging and Therapy Beamlines at the Canadian Light Source | 0 | 0 | 30 |
| University of Saskatchewan | Kirstin Bett | Lentil Genome Sequencing | 0 | 0 | 1 |
| University of Saskatchewan | Igor Morozov | Seismic Research Lab, University of Saskatchewan | 0 | 0 | 3 |

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|-----------------------|--------------------|---|-------|------|-----|
| University of Toronto | Hue Sun Chan | Order and Disorder in Protein Folding and Interactions | 437.4 | 0 | 0 |
| University of Toronto | Ulrich Fekl | Discovering New Catalysts and New Materials using Density Functional Theory | 39.6 | 0 | 0 |
| University of Toronto | John Polanyi | Atomic Motions Underlying Chemical Reaction | 243 | 0 | 0.1 |
| University of Toronto | Joaquim Martins | High-Fidelity Multidisciplinary Design Optimization for the Next Generation of Aircraft | 178.5 | 0 | 0 |
| University of Toronto | David Steinman | Prevalence and Importance of "Turbulent" Flows in Cerebral Aneurysms | 175.5 | 0 | 45 |
| University of Toronto | Hans-Arno Jacobsen | Large-Scale Publish/Subscribe-Based Event Processing and Content Dissemination | 63 | 0 | 0 |
| University of Toronto | Raymond Kapral | Dynamics of Chemically Powered Nanomotors and Protein Machines | 279 | 13.5 | 8 |
| University of Toronto | Edward Sargent | Computational design of materials and device architectures for thin-film optoelectronic devices | 607.5 | 0 | 1 |
| University of Toronto | Norman Murray | Galaxy, Star, and Planet Formation | 387 | 0 | 0 |
| University of Toronto | Hae-Young Kee | Discovery of New Quantum Materials | 144 | 0 | 0 |
| University of Toronto | Cristina Amon | Nanoscale Thermal Transport in 2D Nanomaterials | 629.1 | 0 | 0 |
| University of Toronto | Ue-Li Pen | Computational Astrophysics | 1520 | 0 | 500 |
| University of Toronto | Sabine Stanley | Numerical Simulations of Planetary Dynamos | 790 | 0 | 25 |

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|-----------------------|---------------------|---|------|---|-----|
| University of Toronto | Chandra Veer Singh | First Principles Investigation of Nanomaterials for Artificial Photosynthesis | 540 | 0 | 50 |
| University of Toronto | Paul Kushner | Analyzing Forced and Natural Climate Variability with Earth System Models: Atmospheric and Cryospheric Processes | 649 | 0 | 102 |
| University of Toronto | Francis Dawson | Quantum Mechanical Characterization of the Capacitive Properties of Graphene-based Devices | 579 | 0 | 20 |
| University of Toronto | j. richard bond | Cosmic Microwave Background, Early Universe, and Large Cosmic Structures | 993 | 0 | 35 |
| University of Toronto | Paul Chow | Interconnect Architectures for Field-Programmable Gate Arrays | 82 | 0 | 6 |
| University of Toronto | Harald Pfeiffer | Numerical simulations of compact object binaries: Understanding gravity and contributing to LIGO | 3284 | 0 | 32 |
| University of Toronto | Aimy Bazylak | High-performance computing to investigate multiphase transport in porous media for clean energy technologies and processes | 182 | 0 | 0 |
| University of Toronto | R. J. Dwayne Miller | Molecular Dynamics Simulation of Ablation by Desorption Impulsive Vibrational Excitation: Towards Fundamental Limits in Biagnostics | 99 | 0 | 0 |

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|------------------------|---------------------|---|-------|---|-----|
| University of Toronto | Richard Peltier | Atmospheric and Geophysical Fluid Dynamics | 1953 | 0 | 475 |
| University of Toronto | Clinton Groth | Multi-Scale Adaptive Modelling and Numerical Methods for Turbulent Reactive Flows | 2500 | 0 | 50 |
| University of Toronto | William Navarre | Molecular dynamics analysis of H-NS binding to DNA targets. | 73 | 0 | 0 |
| University of Toronto | Christopher Matzner | Multidimensional hydrodynamics of Star Formation and Exotic Supernovae | 906 | 0 | 8 |
| University of Toronto | Timothy Chan | Optimization Methods for Healthcare Applications | 22 | 0 | 0 |
| University of Toronto | Quaid Morris | Improving cancer treatment by reconstructing the evolutionary history of tumours | 900 | 0 | 10 |
| University of Toronto | Nasser Ashgriz | LES Simulations of Coolant Flow in a 37-Element Fuel Channel | 100 | 0 | 0 |
| University of Toronto | David Zingg | High-Fidelity Numerical Optimization for Future Aircraft Design | 3300 | 0 | 12 |
| University of Toronto | Anton Zilman | Natively unfolded proteins of the Nuclear Pore Complex | 207 | 0 | 0 |
| University of Victoria | Andrew Weaver | Research using The UVic Earth System Climate Model | 13.5 | 0 | 0 |
| University of Victoria | Ben Koop | Genomics in Fish Biology | 90 | 0 | 0 |
| University of Victoria | randy sobie | Belle-II HEP Experiment | 144 | 0 | 40 |
| University of Victoria | Irina Paci | Self-assembly and properties of complex materials | 298.2 | 0 | 0 |

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|------------------------|------------------|---|------|---|-----|
| University of Victoria | Caren Helbing | Informatics on Sentinels of the Environment INFO-SENSE | 36 | 0 | 12 |
| University of Victoria | Arif Babul | Computing the Universe: Unified Modeling of the Evolution of Galaxies and Hot Diffuse X-ray Emitting Gas in Cluster Environments | 648 | 0 | 20 |
| University of Victoria | Juergen Ehltng | Quantitative transcriptome analysis in Douglas fir. | 28.8 | 0 | 0 |
| University of Victoria | Boualem Khouider | Use of the Climate Forecasting System to Improve the skill of weather and climate in the Asian monsoon with a better representation of organized convection | 136 | 0 | 15 |
| University of Victoria | Olaf Niemann | Multisenor Data Integration and Modelling. | 5 | 0 | 45 |
| University of Victoria | Julio Navarro | Local Group Simulation Suite | 618 | 0 | 301 |
| University of Victoria | Curran Crawford | Wave energy device performance prediction | 76 | 0 | 20 |
| University of Victoria | Ned Djilali | Modeling of "PEM Fuel Cells" and "Sudden Hydrogen Leakage" | 304 | 0 | 20 |
| University of Victoria | Peter Oshkai | Development of Marine Hybrid Electric Propulsion | 79 | 0 | 0 |
| University of Victoria | Falk Herwig | Hydrodynamics of convection and nuclear astrophysics in the final phase of stellar evolution | 907 | 0 | 59 |
| University of Victoria | Jody Klymak | Flows in Arctic and Subarctic tidal channels | 37 | 0 | 4 |

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|------------------------|----------------|---|-----|---|----|
| University of Victoria | Julia Baum | Ocean Ecology: Spatial Data and Models to Understand How Human Disturbances Alter Community Structure, Diversity, and Function | 4 | 0 | 8 |
| University of Victoria | Dennis Hore | Addressing heterogeneity in the structural distribution of proteins adsorbed on surfaces | 120 | 0 | 24 |
| University of Waterloo | Hans De Sterck | Large-Scale Simulation of Planetary Environments using Cubed-Sphere Grids | 342 | 0 | 9 |
| University of Waterloo | Scott Hopkins | Determining the Chemical and Physical Properties of Nanoclusters | 216 | 0 | 0 |
| University of Waterloo | Roger Melko | Simulations of Entanglement in Quantum Many-Body Systems | 350 | 0 | 0 |
| University of Waterloo | Edward Sudicky | High-Resolution 3D Analysis of the Impact of Climate Change on Surface Water and Groundwater Resources in the Athabasca River Basin and the Grand River Watershed | 26 | 0 | 0 |
| University of Waterloo | Duane Cronin | Advanced Virtual Human Body Models for Injury Prevention and Improved Safety | 88 | 0 | 12 |
| University of Waterloo | Youngki Yoon | Carrier Transport in 2D Flexible Electronics | 184 | 0 | 5 |
| University of Waterloo | Mark Smucker | Focused Retrieval of Streaming News Events | 0 | 0 | 0 |

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| University of Waterloo | Fue-Sang Lien | Development of a multiscale modeling framework for short-term wind power forecasting | 180 | 0 | 45 |
| University of Waterloo | Jeff Z. Y. Chen | Calculation of phase diagrams for wormlike polymer melts and liquid-crystals | 142 | 0 | 0 |
| University of Waterloo | Ellsworth LeDrew | Canadian Cryospheric Information Network/Polar Data Catalogue Offsite Backup | 0 | 0 | 40 |
| University of Western Ontario | Peter Rogan | Breast Cancer Data Depot | 0 | 0 | 100 |
| University of Western Ontario | Denis Maxwell | Molecular Dynamic investigation of the adaptation of Heat Shock Proteins in the Antarctic psychrophile, Chlamydomonas sp. UWO 241 | 24 | 0 | 0 |
| University of Western Ontario | Styliani Constas | Moldelling of the interactions of complexes of macromolecules in droplets | 136 | 0 | 0 |
| University of Western Ontario | Mikko Karttunen | Simulating Biomolecules at Interfaces | 3000 | 0 | 55 |
| University of Windsor | Robin Gras | Analysis of a predator-prey evolving ecosystem simulation | 170 | 0 | 50 |
| University of Windsor | James Gauld | Multi-scale computational studies of biocatalytic systems: their evolution, mechanisms and properties. | 100 | 0 | 0 |
| University of Winnipeg | Joshua Hollett | Multiscale molecular modelling: organocatalysis to viral enzyme inhibition | 88 | 0 | 0 |

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|----------------------------|-----------------|--|-----|---|----|
| University of Winnipeg | Seyed Moghadas | Evaluating Strategies for Prevention and Control of Infectious Disease Using Quantitative Decision-Support Methods | 800 | 0 | 30 |
| Wilfrid Laurier University | Ian Hamilton | Semiconductor Nanocrystals and Gold Nanostructures | 95 | 0 | 0 |
| Wilfrid Laurier University | Hind Al-Abadleh | Surface Interactions of Arsenic Compounds on Extended Iron Oxide Clusters | 87 | 0 | 0 |
| Wilfrid Laurier University | Ilias Kotsireas | Search for new complementary sequences | 207 | 0 | 4 |
| York University | Siu Ning Leung | Modelling and Simulation of Polymer Nanocomposite Foams for Energy Harvesting | 10 | 0 | 0 |

Récipiendaires du Concours des plateformes et portails de recherche 2015

| Établissement | Chercheur | Nom du projet | Allocation totale (années-coeurs) | Allocation totale (Téraoctets) |
|---|-------------|---|-----------------------------------|--------------------------------|
| Alberta Children's Hospital Research Institute | Brent Scott | ACHRI Galaxy Bioinformatics Portal | 55 | 80 |
| Canadian Brain Imaging Research Network CBRAIN | Alan Evans | Canadian Brain Imaging Research Network CBRAIN | 687 | 220 |
| Institut de recherches cliniques de Montréal IRCM | Tarik Möröy | Application for resources for the analysis and storage of high content genomic data from next generation sequencing | 0 | 50 |

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|---|-------------------|--|------|------|
| McGill University / Université de Sherbrooke | Guillaume Bourque | Genetics and Genomics Analysis Platform GenAP | 442 | 200 |
| Ocean Networks Canada | Benoît Pirenne | Ocean Networks Canada: a Science Support Facility | 0 | 400 |
| Simon Fraser University | Fiona Brinkman | IRIDA - Integrated Rapid Infectious Disease Analysis | 50 | 15 |
| Simon Fraser University (IRMACS) | Felix Breden | iReceptor - Integration of Large- Scale Immunogenetics Data | 10 | 5 |
| TRIUMF | Reda Tafirout | The ATLAS Experiment: Investigation of Fundamental Interactions and the Structure of Matter by the Study of Very High Energy proton-proton Collisions at the CERN Large Hadron Collider | 3378 | 3164 |
| University of Alberta | Erin Bayne | Multi-user Analysis, Automated Processing, and Storage of Bioacoustic Data | 20 | 26 |
| University of British Columbia | Kris Sigurdson | Computing for the Canadian Hydrogen Intensity Mapping Experiment CHIME | 645 | 250 |
| University of British Columbia | Siobhán McElduff | Digital Salon Portal | 10 | 0 |
| University of British Columbia | Hirohisa Tanaka | Research Portal and Platform for the T2K Neutrino Oscillation Experiment | 544 | 110 |

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| University of Victoria | Christopher Pritchett | Canadian Advanced Network for Astronomical Research | 400 | 720 |
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