

2013 Allocations - Compute Canada

Institution	Researcher	Project	Allocation	Market Value
Acadia University	Richard Karsten	Site Characterization for Tidal Energy in Nova Scotia	1,680,000 processor hours 1 TB storage	\$102,211
Baycrest Centre for Geriatric Care	Tomas Paus	Toronto Trans-generational Brain & Body Database (TTBBD)	1,460,000 processor hours 25 TB storage	\$118,159
Brock University	Ping Liang	Systematic identification and characterization of all genome structural variations in humans	2,450,000 processor hours 50 TB storage	\$208,706
Carleton University	Frank Dehne	High Performance Protein Interaction Prediction	16,600,000 processor hours	\$998,776
Concordia University	Marius Paraschivoiu	Aerodynamic Simulations of Vertical Axis Wind Turbines	1,750,000 processor hours	\$105,190
	Ali Dolatabadi	Numerical simulation of two-phases flows	3,550,000 processor hours 1 TB storage	\$214,238
	Gilles Peslherbe	Application of Quantum Chemistry and Molecular Dynamics Simulations to Materials, Solvation and Biophysics	4,730,000 processor hours 5 TB storage	\$290,156
	Guillaume Lamoureux	Computer modeling of metals in proteins	6,590,000 processor hours	\$395,513
	Brigitte Jaumard	Parallel and Distributed Large Scale Optimization Algorithms for Communication and Transport Networks	2,100,000 processor hours	\$126,228
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.	1,930,000 processor hours	\$115,709
École de Technologie Supérieure	Azzeddine Soulaïmani	Modélisation d'écoulements complexes dans les turbines hydrauliques et autour des ailes d'avions	307,000 processor hours	\$18,408
École Polytechnique	Alain Rochefort	Propriétés électroniques et structurales de matériaux électroactifs	2,720,000 processor hours	\$163,044

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École Polytechnique	François Bertrand	Modélisation des écoulements de fluides et de solides pour des procédés du génie chimique	12,400,000 processor hours	\$744,217
Hospital for Sick Children	Jason Lerch	Using Medical Imaging to Understand the Relationship Between Genetics, Development and Disease	20 TB storage	\$24,576
	Régis Pomès	Large-Scale Computational Studies of Biomolecular Structure and Function	105,000,000 processor hours 314 TB storage	\$6,867,984
	John Parkinson	Functional Interrogation of Microbiomes Through Metatranscriptomics	1,930,000 processor hours 2 TB storage	\$118,166
McGill University	Yi Huang	Simulating and understanding the variability of the Earth radiation energy budget	877,000 processor hours 100 TB storage	\$175,475
	Nicolas Moitessier	Improvement of IMPACTS, Development of a novel FF, pKa prediction, Water implications in Virtual Screens	1,400,000 processor hours	\$84,152
	Alan Evans	Canadian Brain Imaging Research Network (CBRAIN)	7,250,000 processor hours 40 TB storage	\$484,374
	Eric Galbraith	Quantifying the global marine ecosystem	2,910,000 processor hours	\$174,878
	Jun Song	Multiscale modeling of Defect Mechanics in Nanomaterials	2,980,000 processor hours 1 TB storage	\$180,051
	Siva Nadarajah	High-Order Discontinuous Galerkin Large Eddy Simulation via the LCP Scheme	2,100,000 processor hours	\$126,228
	Sangyong Jeon	Comprehensive Investigation of Quark-Gluon Plasma in Relativistic Heavy Ion Collisions	8,770,000 processor hours 100 TB storage	\$648,829
	Jeffrey Bergthorson	Detailed study of laminar flames stabilized in small channels (Etude détaillée de flammes laminaires stabilisées dans des conduits étroits)	1,050,000 processor hours	\$63,114

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McGill University	Nada Jabado	Discovery of genetic alterations in pediatric brain tumors	219,000 processor hours 35 TB storage	\$56,157
	Erwin Schurr	Host genetics of mycobacterial disease	333,000 processor hours 15 TB storage	\$38,418
	Kirk Bevan	Computational Design of Nanoelectronic Materials	1,510,000 processor hours	\$90,463
	Victoria Kaspi	Surveys for Radio Pulsars Using Guillimin	6,310,000 processor hours 15 TB storage	\$397,115
	Hong Guo	First principles modeling of nanoelectronics and artificial photosynthesis	17,700,000 processor hours	\$1,060,312
	Daniel Kirshbaum	Cloud-resolving modelling of convective storms	438,000 processor hours 2 TB storage	\$28,755
	Srikar Vengallatore	Atomistic Simulation of Dissipation in Nanomechanical Structures	2,020,000 processor hours	\$120,968
	Carl Ernst	Genetics and epigenetics of neurodevelopmental disorders	526,000 processor hours 50 TB storage	\$92,997
	Eliot Fried	High-resolution a priori and a posteriori studies of regularization models for fluid turbulence	2,280,000 processor hours 2 TB storage	\$139,204
	Wagdi Habashi	Development of Advanced CFD-based Tools for Multidisciplinary Applications	13,600,000 processor hours	\$818,849
	Bruno Tremblay	Vertical ocean heat and nutrient flux in the Arctic Ocean with application to Arctic climate change	2,370,000 processor hours 10 TB storage	\$154,294
	Luc Mongeau	High Fidelity Large Eddy Simulation for Aeroacoustics Applications	3,450,000 processor hours 31 TB storage	\$285,780
	Guillaume Bourque	High-performance computing for high-throughput sequencing and genetic studies	13,600,000 processor hours 500 TB storage	\$1,429,620

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McMaster University	Nikolas Provatas	Multiscale Phase-Field Crystal study of nano- and micro-structure evolution in materials out of equilibrium	1,880,000 processor hours 24 TB storage	\$142,570
Memorial University of Newfoundland	Christopher Rowley	Methods and Modeling in Computational Chemistry	2,260,000 processor hours	\$337,747
	John Whitehead	Modelling and Simulation of Advanced Magnetic Media	1,680,000 processor hours	\$100,982
	Entcho Demirov	Couple ocean-atmosphere modeling of the Subpolar North Atlantic	1,310,000 processor hours 4 TB storage	\$83,807
Ouranos	Anne Frigon	Production d'un ensemble de simulations climatiques régionales à très haute résolution à Ouranos	1,750,000 processor hours 20 TB storage	\$129,766
Perimeter Institute for Theoretical Physics	Luis Lehner	Modeling General Relativistic Astrophysics: Neutron Stars and Black Holes	3,940,000 processor hours 15 TB storage	\$255,109
Queen's University	Tucker Carrington	Ro-vibrational spectra of methane and CH <sub>5</sub> <sup>+</sup> ; and non-product interpolants for solving the Schroedinger equation.	359,000 processor hours 1 TB storage	\$22,793
	Ugo Piomelli	Numerical simulation of turbulent flows	6,400,000 processor hours	\$383,732
	Natalie Cann	Molecular dynamics simulations for studies of chiral chromatography, liquid crystals, and fluid flow under fields	5,700,000 processor hours 17 TB storage	\$362,756
	Art McDonald	DEAP and other SNOLAB Particle Astrophysics	4,100,000 processor hours	\$246,144
Royal Military College of Canada	Xiaohua Wu	Very-Large-Scale Direct Numerical Simulation of Aeronautical Fluid Mechanics Problems	6,400,000 processor hours 60 TB storage	\$457,460
Ryerson University	Seth Dworkin	Parallel Solution and Model Development of Pollutant Formation in Biofuel Combustion	18,900,000 processor hours	\$1,131,789

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Simon Fraser University	George Kirczenow	Theoretical Studies of Nanoscale Systems	2,630,000 processor hours	\$157,785
	Anoop Sarkar	Machine Learning for Statistical Machine Translation from Large Scale Data	1,400,000 processor hours 105 TB storage	\$213,176
	Steven Jones	Structure modeling of SHC protein with REMD	1,400,000 processor hours 1 TB storage	\$85,381
	Mirza Faisal Beg	Early Detection of Alzheimers and discrimination from other dementias using high dimensional morphometric features	1,030,000 processor hours 210 TB storage	\$320,110
	Fiona Brinkman	Bioinformatics for Combating Infectious Disease	1,310,000 processor hours 60 TB storage	\$152,620
	Peter Borwein	IRMACS	1,770,000 processor hours 11 TB storage	\$119,758
	Jack Chen	COMPARATIVE GENOMICS: FROM NEMATODES TO HUMANS	140,000 processor hours 16 TB storage	\$28,076
	Noham Weinberg	Theoretical studies of kinetic effects of high pressure	2,100,000 processor hours 10 TB storage	\$138,516
	Michael Eikerling	Computational Modeling of Electrochemical Materials for Energy Conversion and Storage	1,680,000 processor hours	\$100,982
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	23,800,000 processor hours 3,048 TB storage	\$5,170,440
	Gregory Hackman	Gamma-Ray Spectroscopy at ISAC: Archival Data Storage	20 TB storage	\$24,576

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Université de Montréal	Benjamin Haibe-Kains	Bioinformatics and Computational Genomics Lab and Bioinformatics Core Facility at IRCM	377,000 processor hours 23 TB storage	\$50,878
	Normand Mousseau	Étude des propriétés dynamique des nanostructures, des matériaux désordonnés et des protéines.	7,190,000 processor hours	\$431,278
	Guy Rouleau	High Throughput Sequencing	1,930,000 processor hours 100 TB storage	\$238,589
	Yoshua Bengio	Deep Learning Algorithms	2,910,000 processor hours 24 TB storage	\$264,801
	Rémy Sauvé	Identification d'agents potentiateurs des canaux ioniques CFTR et KCa3.1 par criblage virtuel de banques de petites molécules	614,000 processor hours	\$36,816
	Michel Côté	Calculs de structure électronique des supraconducteurs, nanotubes et polymères	8,770,000 processor hours	\$525,949
	Paul Charbonneau	Simulation magnétohydrodynamique de la convection solaire	7,890,000 processor hours	\$473,354
	Laurent Lewis	Physical properties of advanced materials – from the atom to large-scale structures	1,050,000 processor hours	\$63,114
	Nicolas Lartillot	Chaînes de Markov Monte Carlo Bayésiennes en génomique évolutive	4,380,000 processor hours	\$262,974
	Philip Awadalla	Medical and Population Genomics of Disease Variation	964,000 processor hours	\$57,854
	Radu Iftimie	Molecular mechanism of acid-base reactions in chemistry and biochemistry	2,670,000 processor hours	\$160,414
	Hervé Philippe	Phylogénomique et usage des codons chez les virus	6,530,000 processor hours	\$391,832

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Université de Montréal	Luis Barreiro	Mapping eQTLs that affect susceptibility to bacterial infections.	421,000 processor hours	\$25,246
Université de Sherbrooke	Pierre Harvey	Polymers and molecular assemblies for photonic applications	2,020,000 processor hours	\$120,968
	Claude Legault	Computational Organic Chemistry : Understanding the origin of selectivity	263,000 processor hours	\$15,778
	David Sénéchal	Quantum cluster methods for strongly correlated solids	2,280,000 processor hours	\$136,747
	Andre Dieter Bandrauk	Attosecond Science & Molecules in Intense laser Fields	26,700,000 processor hours 150 TB storage	\$1,788,463
	Noureddine Atalla	Modélisation de la réponse vibroacoustique et aéroacoustique de structures complexes multimatériaux	789,000 processor hours 5 TB storage	\$53,479
	Hugo Larochelle	Développement de réseaux de neurones profonds pour le traitement automatique du langage naturel	614,000 processor hours	\$36,816
	André-Marie Tremblay	Strongly correlated superconductivity	11,500,000 processor hours	\$688,993
	Martin Aubé	Modélisation de la contribution et sensibilité à la pollution lumineuse pour plusieurs sites astronomiques internationaux	1,050,000 processor hours	\$63,114
	Armand Soldera	Simulation multi-échelles de transitions de phases au sein de la matière molle	2,630,000 processor hours 33 TB storage	\$198,335
	Stéphane Moreau	Direct noise predictions for transport applications	11,800,000 processor hours 45 TB storage	\$762,697
Elijah Van Houten	Elastography: Imaging Elastic Properties in Soft Tissues	789,000 processor hours 1 TB storage	\$48,564	

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Université du Québec à Montréal	Alessandro Forte	Numerical Modelling of Thermal Convection in the Earth's Mantle	5,390,000 processor hours	\$323,143
	Pierre Gauthier	A Canadian Earth system modeling and assimilation framework	12,100,000 processor hours 450 TB storage	\$1,278,769
Université Laval	Christian Gagné	Ingénierie de systèmes intelligents distribués	657,000 processor hours	\$39,446
	Connie Lovejoy	Analysis of metagenomes and transcriptomes from the Arctic Ocean	877,000 processor hours 4 TB storage	\$57,510
	Hugo Martel	Formation and Evolution of Barred Galaxies	789,000 processor hours	\$47,335
	André Fortin	Chaire de calcul scientifique de haute performance	2,450,000 processor hours	\$147,266
	Jacques Corbeil	Scalable distributed genomics with message passing	5,610,000 processor hours 50 TB storage	\$398,047
	Patrick Lagüe	Molecular modelling of peptides and proteins playing key roles in bacterial and viral infections	1,710,000 processor hours	\$102,560
	Guy Dumas	CFD for Green Energy Production Systems	2,940,000 processor hours	\$176,193
	Michel Piché	Accélération d'électrons à l'aide d'impulsions laser ultrabrèves et fortement focalisées à polarisation radiale	1,970,000 processor hours	\$118,338
	Luc Beaulieu	Effet des hétérogénéités dans les calculs de dose en radiothérapie, en imagerie et en thérapie interne	1,840,000 processor hours	\$110,449
	Claire Deschenes	Numerical and experimental investigations of low-head turbines hydrodynamic for generation of greener hydro-electricity	2,980,000 processor hours	\$178,823
Louis J. Dubé	Dynamics of Complex Systems	2,630,000 processor hours	\$157,785	

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Université Laval	Faïçal Larachi	Collector's selection and optimization to account for ores mineralogy in flotation processes	526,000 processor hours	\$31,557
University Health Network	Frances Skinner	Neuron and Network Models in Hippocampus	3,410,000 processor hours 5 TB storage	\$209,887
University of Alberta	Mauricio Sacchi	Studies in Full waveform inversion and Dimensionality Reduction Methods for Seismic Data Processing	1,310,000 processor hours 4 TB storage	\$83,807
	Natalia Ivanova	Interacting stars	1,380,000 processor hours	\$310,704
	Jos Derksen	Simulations of dispersion formation in liquid-liquid turbulent flows	2,190,000 processor hours 2 TB storage	\$133,945
	Yutaka Yutaka Yasui	GWAS Gene-Level Logic Regression Analysis	552,000 processor hours	\$33,135
	Martin Mueller	Improving Parallel Depth-first Monte Carlo Tree Search	877,000 processor hours	\$52,595
	Carsten Krauss	The SNO+ Experiment	877,000 processor hours 60 TB storage	\$126,323
	Lesley Harrington	Micro-CT of archaeological human dentitions from Later Stone Age sites in South Africa	15 TB storage	\$18,432
	Duane Szafron	Using High Performance Computing To Solve Large Multi-Agent Decision Problems	10,100,000 processor hours 2 TB storage	\$607,298
	Paul Stothard	Using whole genome sequencing to develop more effective tools for cattle breeding	237,000 processor hours 53 TB storage	\$79,327
	Gane Ka-Shu Wong	1000 Plants and "Viral Discovery"	666,000 processor hours 11 TB storage	\$53,489
	Robert Fedosejevs	Laser Fusion Energy - Fast Ignition and Shock Ignition	8,060,000 processor hours 156 TB storage	\$675,566

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University of Alberta	Richard Marchand	Spacecraft - environment modelling	3,070,000 processor hours	\$184,082
	Robert Driver	Progressive Collapse Resistance of Steel Structures	1,980,000 processor hours 4 TB storage	\$123,780
	Gabriel Hanna	Molecular simulations of the spectroscopy and dynamics of complex systems	2,600,000 processor hours	\$156,207
	Michael Bowling	Investigating Practical Abstraction Methods for Decision-Making in Factored Domains	3,160,000 processor hours 144 TB storage	\$366,289
	Andrew Bush	Regional climate modeling with applications to alpine glaciers in the Canadian Cordillera, the Andes, and the Himalaya	20 TB storage	\$24,576
	Sushanta Mitra	High Resolution Simulations of Droplet Collisions and Coalescence	438,000 processor hours	\$279,191
	Thian Yew Gan	Climate Change Study for the City of Edmonton: IDF Curves Update and Initial Climate Forecasting	3 TB storage	\$3,686
	Andriy Kovalenko	Multiscale theory, modeling and simulation for rational design in nanochemistry, nanoelectronics, nanomaterials, energy and health applications	10,800,000 processor hours 13 TB storage	\$662,365
	Paul Myers	Ocean/Sea-Ice Modelling for Studies of the Canadian North and Marine Forecasting	351,000 processor hours 23 TB storage	\$49,300
	Gino DiLabio	1. Development of Dispersion-Correcting Potentials (DCPs) for Density-Functional Theory Methods.	1,850,000 processor hours	\$110,975
	Moritz Heimpel	Modelling planetary fluid flow and magnetic field generation	1,230,000 processor hours 25 TB storage	\$104,353
	Jonathan Kertzer	Application	16 TB storage	\$19,661

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University of British Columbia	Douglas Bryman	Rare Decay Experiments and Applied Physics Projects	438,000 processor hours 310 TB storage	\$407,225
	Gren Patey	Molecular Level Simulations of Complex Physical Systems	5,260,000 processor hours	\$315,569
	Joerg Rottler	Molecular simulations of polymers: from glasses to polyelectrolytes	842,000 processor hours	\$50,491
	Kris Sigurdson	Computing for the Canadian Hydrogen Intensity Mapping Experiment (CHIME)	17,100,000 processor hours 125 TB storage	\$1,177,885
	Matthew Choptuik	Studies in numerical relativity	2,240,000 processor hours 39 TB storage	\$182,566
	Hirohisa Tanaka	Analysis for the T2K Neutrino Oscillation Experiment	5,030,000 processor hours 251 TB storage	\$610,323
	Matthias Militzer	Quantum mechanical/molecular mechanical simulations of grain boundaries	1,120,000 processor hours	\$67,321
	William Hsiao	Public Health Microbial Genomics and Metagenomics	1,750,000 processor hours 70 TB storage	\$191,206
	Loren Rieseberg	Sunflower Genome Project	123,000 processor hours 10 TB storage	\$19,651
	Holger Hoos	Programming by Optimisation: Automated Configuration and Selection of Algorithms for Challenging Computational Problems	5,260,000 processor hours	\$315,569
	Quentin Cronk	PopCan: Large scale genomic research on poplar trees	25 TB storage	\$30,720
	Ingrid Stairs	Renewal of Radio Telescope Pulsar Data Repository - 2013	10 TB storage	\$12,288

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University of British Columbia	Gregory Lawrence	Modeling of stratified flow instabilities at high Reynolds and Prandtl numbers	281,000 processor hours 42 TB storage	\$68,440
University of Calgary	Peter Tieleman	Computational studies of biological membranes	56,100,000 processor hours 252 TB storage	\$3,765,718
	Peter Vize	Xenbase genomic systems	10 TB storage	\$12,288
	Tom Ziegler	The development of new density functional based methods and their application to catalysis	3,070,000 processor hours	\$184,082
	Arvi Rauk	Computational Research into the Chemistry of Alzheimer's Disease	5,130,000 processor hours 25 TB storage	\$338,400
	Dennis Salahub	Multiscale modeling of complex systems: i) systems biology ii) in-situ catalysis for sustainable energy	8,770,000 processor hours 10 TB storage	\$538,237
	Eric Donovan	Remote Sensing the Near Earth Space Environment	90 TB storage	\$110,592
	Sergei Noskov	Theoretical Models of Solute Transport Across Biological Membranes	28,300,000 processor hours 120 TB storage	\$1,846,270
	Carey Williamson	Network Traffic Traces for Networks Research Group	35 TB storage	\$43,008
	Russ Taylor	CyberSKA and the Galactic ALFA Continuum Transit Survey	982,000 processor hours 138 TB storage	\$228,481
University of Guelph	Susan Brown	30TB Storage for the Canadian Writing Research Collaboratory	30 TB storage	\$36,864
University of Lethbridge	Stacey Wetmore	DNA Damage, Repair and Modification	2,040,000 processor hours 19 TB storage	\$322,919
	Hans-Joachim Wieden	Molecular dynamics and signal transmission in translational GTPases	570,000 processor hours 18 TB storage	\$56,305

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University of Manitoba	David Kuhn	Direct Numerical Simulation of Physiological Blood Flow in Abdominal Aortic Aneurysms	1,310,000 processor hours 2 TB storage	\$81,350
	wayne xu	A new Base Node Reduction based assembler for next-generation sequences	394,000 processor hours 1 TB storage	\$24,896
	Mahmoud Torabi	Developing Statistical Methodology for Addressing Problems in Small Area Estimation and Spatial Disease Surveillance	5,260,000 processor hours	\$315,569
	Scott Ormiston	Interface Tracking in Two-Phase Models of Film Condensation	421,000 processor hours 1 TB storage	\$26,474
	Margaret Docker	Gene Expression in Paired Species of Lampreys	175,000 processor hours	\$10,519
	David Barber	Nucleus for European Modelling of the Ocean (NEMO) and its use in the ArcticNet Integrated Regional Impact Study (IRIS) process	1,730,000 processor hours 2 TB storage	\$106,069
	Bing-Chen Wang	Large-eddy Simulation of Turbulent Diffusion in Urban Environments	2,630,000 processor hours 2 TB storage	\$160,242
University of Northern British Columbia	Brian Menounos	High Performance Computing for Cyrospheric Science	1,470,000 processor hours 80 TB storage	\$186,663
University of Ontario Institute of Technology	Lennaert van Veen	Numerical Simulation of Secondary Transitions in a differentially heated, rotating annulus	1,700,000 processor hours	\$102,034
University of Ottawa	Thomas Brabec	Ab initio modelling of light-matter interaction	4,730,000 processor hours 20 TB storage	\$308,588
	Tom Woo	Virtual Screening of Advanced Materials for Clean Energy Applications	7,490,000 processor hours 15 TB storage	\$468,118

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University of Saskatchewan	Yuanming Pan	Theoretical modeling of paramagnetic defects in minerals and other materials	3,510,000 processor hours	\$210,379
	Kathryn McWilliams	SuperDARN Data in Canadian Space Science Data Portal	10 TB storage	\$12,288
	Doug Degenstein	Atmospheric Species Retrievals From Limb Scattered Sunlight Data Collected by the Canadian OSIRIS Satellite Instrument	3,510,000 processor hours	\$210,379
	Howard Wheeler	Saskatchewan River Basin: a large scale observatory for new water science	12 TB storage	\$14,746
	Barbara Szpunar	Modeling Properties of Nuclear Materials	1,180,000 processor hours 2 TB storage	\$73,461
	Raymond Spiteri	Towards real-time heart simulation	1,120,000 processor hours	\$67,321
	Alexander Moewes	Density Function Theory Simulations of Low-symmetry Crystals: The Quest for Accuracy	1,710,000 processor hours	\$102,560
	John Tse	Computational Materials Science	4,120,000 processor hours	\$247,196
	Richard Bowles	Statistical mechanics and thermodynamics of nanoscale systems	1,040,000 processor hours 9 TB storage	\$73,647
	Chris Soteris	Lattice Models of Polymers with applications to DNA Topology	438,000 processor hours 15 TB storage	\$44,729
	Igor Morozov	Data Storage at the Seismic Research Lab, University of Saskatchewan	28 TB storage	\$34,406
	Tomasz W. Wysokinski	The Biomedical Imaging and Therapy Beamlines Facility at the Canadian Light Source	20 TB storage	\$24,576

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University of Saskatchewan	Pierre Fobert	Canadian Wheat Flagship Strategic Alliance	38 TB storage	\$46,694
University of Toronto	David Zingg	High-Fidelity Numerical Optimization for Future Aircraft Design	35,800,000 processor hours 6 TB storage	\$2,155,873
	Hue Sun Chan	Order and Disorder in Protein Folding and Interactions	4,260,000 processor hours	\$255,821
	Ulrich Fekl	Discovering New Catalysts and New Materials using Density Functional Theory	386,000 processor hours	\$23,142
	John Polanyi	Atomic Motions Underlying Chemical Reaction	2,250,000 processor hours	\$134,906
	Sabine Stanley	Numerical Simulations of Planetary Dynamos	7,390,000 processor hours 30 TB storage	\$480,554
	Joaquim Martins	High-Fidelity Multidisciplinary Design Optimization for the Next Generation of Aircraft	2,240,000 processor hours	\$134,117
	Nasser Ashgriz	Large Eddy Simulation of a Liquid Jet in Cross-flow	2,110,000 processor hours	\$126,754
	Chandra Veer Singh	Computational design of materials for lightweight aerospace and sustainable energy applications	3,110,000 processor hours 12 TB storage	\$201,457
	Paul Kushner	Collaborative Climate Research with Community Climate Model Simulations	2,590,000 processor hours 90 TB storage	\$265,747
	Andreas Moshovos	Compute Device Architecture	1,250,000 processor hours 15 TB storage	\$93,380
	J. Richard Bond	The Early Universe and Large Cosmic Structures	12,500,000 processor hours 35 TB storage	\$792,485
	Richard Peltier	Atmospheric and Geophysical Fluid Dynamics	16,400,000 processor hours 370 TB storage	\$1,440,810

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University of Toronto	Ue-Li Pen	Computational Cosmology	21,500,000 processor hours 55 TB storage	\$1,356,158
	Aimy Bazylak	High-performance computing to investigate transport in porous media for clean energy technologies and processes	3,880,000 processor hours	\$232,837
	William Navarre	Predicting the mechanism of H-NS binding to DNA	328,000 processor hours	\$19,670
	John Dubinski	Two Studies of the Formation of Dynamical Systems: The Origins of the Moon and Elliptical Galaxies	3,130,000 processor hours	\$188,027
	Raymond Kapral	Simulation of the Dynamics of Protein Machines and Synthetic Chemically Powered Nanomotors	1,500,000 processor hours 10 TB storage	\$153,067
	Clinton Groth	Multi-Scale Adaptive Modelling and Numerical Methods for Turbulent Reactive Flows	28,100,000 processor hours 40 TB storage	\$1,732,188
	Patrick Brown	Spatio-temporal modelling with the local-EM algorithm	789,000 processor hours	\$47,335
	Harald Pfeiffer	Numerical studies of compact object binaries: Foundations for gravitational wave detectors	27,600,000 processor hours 90 TB storage	\$1,767,330
	Norman Murray	Galaxy, Star, and Planet Formation	5,160,000 processor hours 5 TB storage	\$315,928
	Edward Sargent	Atomic-scale modeling of optoelectronic properties of quantum dot films	1,090,000 processor hours 1 TB storage	\$66,446
	Radhakrishnan Mahadevan	Investigation of microbial communities in the subsurface by high-performance computing clusters	535,000 processor hours 2 TB storage	\$34,540
University of Victoria	Dennis Hore	Elucidating the mechanism of protein denaturation upon contact with hydrophobic surfaces	5,610,000 processor hours 24 TB storage	\$366,098

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University of Victoria	Christopher Pritchett	Canadian Advanced Network for Astronomical Research	4,380,000 processor hours 1,260 TB storage	\$1,811,262
	Arif Babul	Computing the Universe: Unified Modeling of the Evolution of Galaxies and Hot Diffuse Gas in Cluster Environments	7,010,000 processor hours	\$420,759
	Andrew Weaver	Research using The UVic Earth System Climate Model	131,000 processor hours	\$7,889
	John Fyfe	Understanding the Role of the Southern Ocean in Global Climate Change Using High Resolution Modelling	473,000 processor hours 9 TB storage	\$39,460
	Benoît Pirenne	Ocean Networks Canada's secondary storage	150 TB storage	\$184,320
	Ben Koop	Genomics in Fish Biology	877,000 processor hours 10 TB storage	\$64,883
	Falk Herwig	Stellar hydrodynamics of stars that formed in the early Universe	4,160,000 processor hours 55 TB storage	\$317,410
	Boualem Khouider	Convective clouds and their impact on the climate system	526,000 processor hours 10 TB storage	\$43,845
University of Waterloo	Hans De Sterck	Large-Scale Simulation of Planetary Environments using Cubed-Sphere Grids	3,330,000 processor hours 9 TB storage	\$210,920
	Kevin Lamb	Three-dimensionalization of shear instabilities in internal solitary waves in the ocean	3,000,000 processor hours 20 TB storage	\$204,450
	Edward Sudicky	Development and application of an integrated high-performance computational framework to analyze the impact of climate change on Canadian water resources	666,000 processor hours	\$39,972

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University of Western Ontario	Styliani Conostas	Applications of advanced computational methods on studies of biological and chemical systems	1,860,000 processor hours	\$111,764
University of Windsor	Robin Gras	Analysis of a predator-prey evolving ecosystem simulation	894,000 processor hours 93 TB storage	\$167,311
York University	Yongsheng Chen	Ensemble Regional Climate Modelling	1,530,000 processor hours	\$92,041
		<b>Total</b>	958,885,820 processor hours 10,668 TB storage	\$71,946,919

## 2013 Allocations - Compute Canada

1 680 000 heures CPU 1 To stockage	102 211 \$
1 460 000 heures CPU 25 To stockage	118 159 \$
2 450 000 heures CPU 50 To stockage	208 706 \$
16 600 000 heures CPU	998 776 \$
1 750 000 heures CPU	105 190 \$
3 550 000 heures CPU 1 To stockage	214 238 \$
4 730 000 heures CPU 5 To stockage	290 156 \$
6 590 000 heures CPU	395 513 \$
2 100 000 heures CPU	126 228 \$
1 930 000 heures CPU	115 709 \$
307 000 heures CPU	18 408 \$
2 720 000 heures CPU	163 044 \$

2013 Allocations - Compute Canada

12 400 000 heures CPU	744 217 \$
20 To stockage	24 576 \$
105 000 000 heures CPU	6 867 984 \$
314 To stockage	
1 930 000 heures CPU	118 166 \$
2 To stockage	
877 000 heures CPU	175 475 \$
100 To stockage	
1 400 000 heures CPU	84 152 \$
7 250 000 heures CPU	484 374 \$
40 To stockage	
2 910 000 heures CPU	174 878 \$
2 980 000 heures CPU	180 051 \$
1 To stockage	
2 100 000 heures CPU	126 228 \$
8 770 000 heures CPU	648 829 \$
100 To stockage	
1 050 000 heures CPU	63 114 \$

2013 Allocations - Compute Canada

219 000 heures CPU 35 To stockage	56 157 \$
333 000 heures CPU 15 To stockage	38 418 \$
1 510 000 heures CPU	90 463 \$
6 310 000 heures CPU 15 To stockage	397 115 \$
17 700 000 heures CPU	1 060 312 \$
438 000 heures CPU 2 To stockage	28 755 \$
2 020 000 heures CPU	120 968 \$
526 000 heures CPU 50 To stockage	92 997 \$
2 280 000 heures CPU 2 To stockage	139 204 \$
13 600 000 heures CPU	818 849 \$
2 370 000 heures CPU 10 To stockage	154 294 \$
3 450 000 heures CPU 31 To stockage	285 780 \$
13 600 000 heures CPU 500 To stockage	1 429 620 \$

2013 Allocations - Compute Canada

1 880 000 heures CPU 24 To stockage	142 570 \$
2 260 000 heures CPU	337 747 \$
1 680 000 heures CPU	100 982 \$
1 310 000 heures CPU 4 To stockage	83 807 \$
1 750 000 heures CPU 20 To stockage	129 766 \$
3 940 000 heures CPU 15 To stockage	255 109 \$
359 000 heures CPU 1 To stockage	22 793 \$
6 400 000 heures CPU	383 732 \$
5 700 000 heures CPU 17 To stockage	362 756 \$
4 100 000 heures CPU	246 144 \$
6 400 000 heures CPU 60 To stockage	457 460 \$
18 900 000 heures CPU	1 131 789 \$

2013 Allocations - Compute Canada

2 630 000 heures CPU	157 785 \$
1 400 000 heures CPU 105 To stockage	213 176 \$
1 400 000 heures CPU 1 To stockage	85 381 \$
1 030 000 heures CPU 210 To stockage	320 110 \$
1 310 000 heures CPU 60 To stockage	152 620 \$
1 770 000 heures CPU 11 To stockage	119 758 \$
140 000 heures CPU 16 To stockage	28 076 \$
2 100 000 heures CPU 10 To stockage	138 516 \$
1 680 000 heures CPU	100 982 \$
23 800 000 heures CPU 3 048 To stockage	5 170 440 \$
20 To stockage	24 576 \$

2013 Allocations - Compute Canada

377 000 heures CPU 23 To stockage	50 878 \$
7 190 000 heures CPU	431 278 \$
1 930 000 heures CPU 100 To stockage	238 589 \$
2 910 000 heures CPU 24 To stockage	264 801 \$
614 000 heures CPU	36 816 \$
8 770 000 heures CPU	525 949 \$
7 890 000 heures CPU	473 354 \$
1 050 000 heures CPU	63 114 \$
4 380 000 heures CPU	262 974 \$
964 000 heures CPU	57 854 \$
2 670 000 heures CPU	160 414 \$
6 530 000 heures CPU	391 832 \$

2013 Allocations - Compute Canada

421 000 heures CPU	25 246 \$
2 020 000 heures CPU	120 968 \$
263 000 heures CPU	15 778 \$
2 280 000 heures CPU	136 747 \$
26 700 000 heures CPU 150 To stockage	1 788 463 \$
789 000 heures CPU 5 To stockage	53 479 \$
614 000 heures CPU	36 816 \$
11 500 000 heures CPU	688 993 \$
1 050 000 heures CPU	63 114 \$
2 630 000 heures CPU 33 To stockage	198 335 \$
11 800 000 heures CPU 45 To stockage	762 697 \$
789 000 heures CPU 1 To stockage	48 564 \$

2013 Allocations - Compute Canada

5 390 000 heures CPU	323 143 \$
12 100 000 heures CPU 450 To stockage	1 278 769 \$
657 000 heures CPU	39 446 \$
877 000 heures CPU 4 To stockage	57 510 \$
789 000 heures CPU	47 335 \$
2 450 000 heures CPU	147 266 \$
5 610 000 heures CPU 50 To stockage	398 047 \$
1 710 000 heures CPU	102 560 \$
2 940 000 heures CPU	176 193 \$
1 970 000 heures CPU	118 338 \$
1 840 000 heures CPU	110 449 \$
2 980 000 heures CPU	178 823 \$
2 630 000 heures CPU	157 785 \$

2013 Allocations - Compute Canada

526 000 heures CPU	31 557 \$
3 410 000 heures CPU 5 To stockage	209 887 \$
1 310 000 heures CPU 4 To stockage	83 807 \$
1 380 000 heures CPU	310 704 \$
2 190 000 heures CPU 2 To stockage	133 945 \$
552 000 heures CPU	33 135 \$
877 000 heures CPU	52 595 \$
877 000 heures CPU 60 To stockage	126 323 \$
15 To stockage	18 432 \$
10 100 000 heures CPU 2 To stockage	607 298 \$
237 000 heures CPU 53 To stockage	79 327 \$
666 000 heures CPU 11 To stockage	53 489 \$
8 060 000 heures CPU 156 To stockage	675 566 \$

2013 Allocations - Compute Canada

3 070 000 heures CPU	184 082 \$
1 980 000 heures CPU 4 To stockage	123 780 \$
2 600 000 heures CPU	156 207 \$
3 160 000 heures CPU 144 To stockage	366 289 \$
20 To stockage	24 576 \$
438 000 heures CPU	279 191 \$
3 To stockage	3 686 \$
10 800 000 heures CPU 13 To stockage	662 365 \$
351 000 heures CPU 23 To stockage	49 300 \$
1 850 000 heures CPU	110 975 \$
1 230 000 heures CPU 25 To stockage	104 353 \$
16 To stockage	19 661 \$

2013 Allocations - Compute Canada

438 000 heures CPU 310 To stockage	407 225 \$
5 260 000 heures CPU	315 569 \$
842 000 heures CPU	50 491 \$
17 100 000 heures CPU 125 To stockage	1 177 885 \$
2 240 000 heures CPU 39 To stockage	182 566 \$
5 030 000 heures CPU 251 To stockage	610 323 \$
1 120 000 heures CPU	67 321 \$
1 750 000 heures CPU 70 To stockage	191 206 \$
123 000 heures CPU 10 To stockage	19 651 \$
5 260 000 heures CPU	315 569 \$
25 To stockage	30 720 \$
10 To stockage	12 288 \$

2013 Allocations - Compute Canada

281 000 heures CPU 42 To stockage	68 440 \$
56 100 000 heures CPU 252 To stockage	3 765 718 \$
10 To stockage	12 288 \$
3 070 000 heures CPU	184 082 \$
5 130 000 heures CPU 25 To stockage	338 400 \$
8 770 000 heures CPU 10 To stockage	538 237 \$
90 To stockage	110 592 \$
28 300 000 heures CPU 120 To stockage	1 846 270 \$
35 To stockage	43 008 \$
982 000 heures CPU 138 To stockage	228 481 \$
30 To stockage	36 864 \$
2 040 000 heures CPU 19 To stockage	322 919 \$
570 000 heures CPU 18 To stockage	56 305 \$

2013 Allocations - Compute Canada

1 310 000 heures CPU 2 To stockage	81 350 \$
394 000 heures CPU 1 To stockage	24 896 \$
5 260 000 heures CPU	315 569 \$
421 000 heures CPU 1 To stockage	26 474 \$
175 000 heures CPU	10 519 \$
1 730 000 heures CPU 2 To stockage	106 069 \$
2 630 000 heures CPU 2 To stockage	160 242 \$
1 470 000 heures CPU 80 To stockage	186 663 \$
1 700 000 heures CPU	102 034 \$
4 730 000 heures CPU 20 To stockage	308 588 \$
7 490 000 heures CPU 15 To stockage	468 118 \$

2013 Allocations - Compute Canada

3 510 000 heures CPU	210 379 \$
10 To stockage	12 288 \$
3 510 000 heures CPU	210 379 \$
12 To stockage	14 746 \$
1 180 000 heures CPU	73 461 \$
2 To stockage	
1 120 000 heures CPU	67 321 \$
1 710 000 heures CPU	102 560 \$
4 120 000 heures CPU	247 196 \$
1 040 000 heures CPU	73 647 \$
9 To stockage	
438 000 heures CPU	44 729 \$
15 To stockage	
28 To stockage	34 406 \$
20 To stockage	24 576 \$

2013 Allocations - Compute Canada

38 To stockage	46 694 \$
35 800 000 heures CPU 6 To stockage	2 155 873 \$
4 260 000 heures CPU	255 821 \$
386 000 heures CPU	23 142 \$
2 250 000 heures CPU	134 906 \$
7 390 000 heures CPU 30 To stockage	480 554 \$
2 240 000 heures CPU	134 117 \$
2 110 000 heures CPU	126 754 \$
3 110 000 heures CPU 12 To stockage	201 457 \$
2 590 000 heures CPU 90 To stockage	265 747 \$
1 250 000 heures CPU 15 To stockage	93 380 \$
12 500 000 heures CPU 35 To stockage	792 485 \$
16 400 000 heures CPU 370 To stockage	1 440 810 \$

2013 Allocations - Compute Canada

21 500 000 heures CPU 55 To stockage	1 356 158 \$
3 880 000 heures CPU	232 837 \$
328 000 heures CPU	19 670 \$
3 130 000 heures CPU	188 027 \$
1 500 000 heures CPU 10 To stockage	153 067 \$
28 100 000 heures CPU 40 To stockage	1 732 188 \$
789 000 heures CPU	47 335 \$
27 600 000 heures CPU 90 To stockage	1 767 330 \$
5 160 000 heures CPU 5 To stockage	315 928 \$
1 090 000 heures CPU 1 To stockage	66 446 \$
535 000 heures CPU 2 To stockage	34 540 \$
5 610 000 heures CPU 24 To stockage	366 098 \$

2013 Allocations - Compute Canada

4 380 000 heures CPU 1 260 To stockage	1 811 262 \$
7 010 000 heures CPU	420 759 \$
131 000 heures CPU	7 889 \$
473 000 heures CPU 9 To stockage	39 460 \$
150 To stockage	184 320 \$
877 000 heures CPU 10 To stockage	64 883 \$
4 160 000 heures CPU 55 To stockage	317 410 \$
526 000 heures CPU 10 To stockage	43 845 \$
3 330 000 heures CPU 9 To stockage	210 920 \$
3 000 000 heures CPU 20 To stockage	204 450 \$
666 000 heures CPU	39 972 \$

2013 Allocations - Compute Canada

1 860 000 heures CPU	111 764 \$
894 000 heures CPU 93 To stockage	167 311 \$
1 530 000 heures CPU	92 041 \$
958 885 820 heures CPU 10 668 To stockage	71 946 919 \$