

Resources for Research Groups Competition 2017								
Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Muhammad Abdul-Mageed	University of British Columbia	Massive-Scale Natural Language Processing with Deep Learning	Computer and Information Science	0	40	0	0	0
Nasser Mohieddin Abukhdeir	University of Waterloo	Field-driven dynamics of nematic liquid crystal spheroids	Engineering	0	0	0	0	0
Ahmad Afsahi	Queen's University	High-Performance Communication Runtime and System Software for Exascale Computing	Computer and Information Science	137	0	32	0	0
Susan Allen	University of British Columbia	Coupled Ocean Models: Salish Sea and Arctic Ocean	Environmental and Earth Science	158	0	0	0	0
Cristina Amon	University of Toronto	Nanoscale Thermal Transport in 2D Nanomaterials & Optimization of Wind Farm Layouts	Engineering	496	0	0	0	0
Patrizio Antici	Institut National de la Recherche Scientifique	Production of Nanomaterials Using Laser-Driven Proton Acceleration	Physics	298	45	0	0	0
Antti Arppe	University of Alberta	21st century tools for indigenous languages	Humanities	0	30	0	0	0
Nicholas Ashbolt	University of Alberta	Quantitative Microbial Risk Assessment for Legionella risk via piped water	Environmental and Earth Science	0	0	0	0	0
Nasser Ashgriz	University of Toronto	Simulations of Thermal-Hydraulic of CANDU Moderator	Engineering	73	0	0	0	0
Noureddine Atalla	Université de Sherbrooke	Modélisation de la réponse vibroacoustique et aéroacoustique de structures complexes multimatériaux	Engineering	0	0	0	0	0
Philip Awadalla	Université de Montréal	Interaction of Exposome, Genomes and Transcriptomes on Chronic Disease Endophenotypes	Biological and Life Sciences	93	27	0	0	0
Paul Ayers	McMaster University	Developing New Tools for Molecular Modelling and Chemical Reactions	Chemistry and Biochemistry	350	0	0	0	0
Arif Babul	University of Victoria	Computing the Universe: Unified Modeling of the Evolution of Galaxies and Hot Diffuse X-ray Emitting Gas in Group and Cluster Environments	Astronomy	346	135	0	0	0
Fahiem Bacchus	University of Toronto	Combinatorial Optimization via Maxsat	Computer and Information Science	0	2	0	0	0
Andre Dieter Bandrauk	Université de Sherbrooke	Attosecond Science in Quantum Electronics	Chemistry and Biochemistry	3708	1	0	0	0

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David Barber	University of Manitoba	BaySys: Understanding freshwater-marine coupling in Hudson Bay using the NEMO ice-ocean model	Environmental and Earth Science	128	60	0	0	0
Luis Barreiro	Université de Montréal	Genetic and Epigenetic regulation of innate immune responses to infection	Biological and Life Sciences	119	40	0	0	0
Peter Bartello	McGill University	Atmospheric and oceanic mixing	Environmental and Earth Science	50	3	0	0	0
Aimy Bazylak	University of Toronto	High-performance computing to investigate multiphase transport in porous media for clean energy technologies and processes	Engineering	0	20	0	0	0
Mirza Faisal Beg	Simon Fraser University	Multimodal and longitudinal brain image data mining for neurodegenerative disease early biomarker discovery	Engineering	371	350	40	0	0
Kamran Behdian	University of Toronto	Multiscale modeling of advanced structures using the Bridging Cell Method	Engineering	0	0	0	0	0
Pierre Bellec	Université de Montréal	Subtypes of human brain connectivity in healthy and pathological aging	Computer and Information Science	50	88	0	0	0
M'hamed Bentourkia	Université de Sherbrooke	Projet 1: Imagerie et dosimétrie du petit animal par un microCT/RT scanner avec les simulations par GATE; Projet2: Dommages à l'ADN par les rayonnements: calculs avec GEANT4.	Physics	80	1	0	0	0
Jeffrey Bergthorson	McGill University	Large Eddy Simulations of Novel Flame Configurations in Industrial Gas Turbines	Engineering	91	0	0	0	0
Geneviève Bernard	McGill University	Leukodystrophies: identification of novel causal genes	Medical Science	50	20	0	0	0
Louis Bernatchez	Université Laval	EPIC4 (Enhancing Production in Coho: Culture, Community, Catch)	Biological and Life Sciences	0	50	0	0	0
François Bertrand	École Polytechnique	Modélisation des écoulements de fluides et de solides pour des procédés du génie chimique	Engineering	361	0	0	0	0
Kirk Bevan	McGill University	Computational Design of Nanoelectronic Materials	Engineering	109	2	0	0	0
Nathalie Bissonnette	Université de Sherbrooke	Résistance génétique et susceptibilité à la paratuberculose bovine	Biological and Life Sciences	0	0	0	0	0

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Mathieu Blanchette	McGill University	Ancestral and structural genomics	Computer and Information Science	88	89	0	0	0
J. Richard Bond	University of Toronto	Cosmic Microwave Background, Early Universe, and Large Cosmic Structures	Astronomy	1960	95	0	0	0
Valerie Booth	Memorial University of Newfoundland	All atom simulations with Surfactant Protein B (SP-B)	Chemistry and Biochemistry	0	3	0	0	0
Christoph Borchers	University of Victoria	Data and Cloud Resources for Proteomics	Biological and Life Sciences	0	62	0	0	0
Hugo Bouchard	Université de Montréal	Applications Monte Carlo en radiothérapie	Physics	0	0	0	0	0
Guillaume Bourque	McGill University	Large-scale processing and sharing of genomic and genetic data	Biological and Life Sciences	900	1320	0	0	0
Richard Bowles	University of Saskatchewan	The Theory and Simulation of Soft Condense Matter	Chemistry and Biochemistry	56	20	0	0	0
Michael Bowling	University of Alberta	Sequential Decision-Making with Delayed Consequences	Computer and Information Science	185	0	0	0	0
Thomas Brabec	University of Ottawa	Ab initio modelling of light-matter interaction	Physics	346	10	0	0	0
Joshua Brinkerhoff	University of British Columbia	Transition and Turbulence in Natural-Gas Liquefaction Turbomachinery and Processing Equipment	Engineering	349	20	0	0	0
Fiona Brinkman	Simon Fraser University	Public health and environmental monitoring genomics and metagenomics	Biological and Life Sciences	50	40	0	0	0
Marc Brisson	Université Laval	Using mathematical modeling and health economics to evaluate and optimize infectious disease prevention strategies	Medical Science	236	0	0	0	0
Alex Brown	University of Alberta	Molecular photophysics and photochemistry: From small molecules to fluorescent proteins	Chemistry and Biochemistry	75	0	0	0	0
Paul Brumer	University of Toronto	Mapping electronic energy transfer dynamics using the localized operator partitioning method	Chemistry and Biochemistry	648	66	0	0	0
Douglas Bryman	University of British Columbia	Rare Decay Experiments	Physics	50	150	0	0	0
Kendal Bushe	University of British Columbia	Tools for the Numerical Simulation of Turbulent Combustion	Engineering	90	0	0	0	0

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Tucker Carrington	Queen's University	Numerically exact ro-vibrational spectrum of the water dimer + Tensor methods for computing vibrational spectra of large molecules	Chemistry and Biochemistry	134	0	5	0	0
Mallar Chakravarty	McGill University	Computational neuroanatomy in neuropsychiatric disorders	Medical Science	852	0	4	0	0
Hue Sun Chan	University of Toronto	Order, Intrinsic Disorder, and Switches in Protein Folding and Interactions	Chemistry and Biochemistry	598	0	0	0	0
Paul Charbonneau	Université de Montréal	Simulations magnétohydrodynamique du cycle magnétique solaire	Physics	348	0	0	0	0
Patrice Chartrand	École Polytechnique	Propriétés physico-chimiques de phases condensées pour matériaux d'électrolyse et de batteries	Engineering	66	300	0	0	0
Kinnor Chattopadhyay	University of Toronto	Mathematical Modelling of metallurgical processes for sustainable design and operation	Engineering	0	103	0	0	0
Cedric Chauve	Simon Fraser University	Anopheles mosquito genomics	Mathematics and Statistics	50	20	0	0	0
Jeff Z. Y. Chen	University of Waterloo	Calculation of phase diagrams for wormlike polymer melts and liquid-crystals	Physics	108	0	0	0	0
Zhangxing (John) Chen	University of Calgary	Reservoir Modelling and Simulation	Engineering	322	10	0	0	0
Jing Chen	University of Toronto	Global simulation of terrestrial carbon and water cycles at moderate resolutions	Environmental and Earth Science	138	91	0	0	0
Matthew Choptuik	University of British Columbia	Numerical Relativity	Physics	232	0	0	0	0
Paul Chow	University of Toronto	Interconnect Architectures for Field-Programmable Gate Arrays	Engineering	70	6	0	0	0
Ken Clark	University of Toronto	The PICO Dark Matter Experiment	Physics	0	130	0	0	0
Styliani Conostas	University of Western Ontario	Computational Modeling of Chemical Reactivity in Droplets	Chemistry and Biochemistry	58	1	0	0	0
Nicholas Coops	University of British Columbia	National Terrestrial Ecosystem Monitoring System (NTEMS)	Environmental and Earth Science	0	110	0	0	0
Patrick Cossette	Université de Montréal	La médecine personnalisée pour l'épilepsie	Biological and Life Sciences	0	100	0	0	0
Michel Côté	Université de Montréal	Calculs de structure électronique de matériaux supraconducteurs, nanomatériaux, et matériaux pour batteries.	Physics	179	0	0	0	0

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Hugh Couchman	McMaster University	The Ecology of Galaxies: cooling, feedback and the regulation of star formation	Astronomy	438	0	0	0	0
Melania Cristescu	McGill University	Ecological and Environmental Genomics to determine patterns of mutation, adaptation, speciation, and biodiversity distribution	Biological and Life Sciences	30	8	0	0	0
Duane Cronin	University of Waterloo	Advanced Human Neck Models with Active Musculature for Enhanced Vehicle Safety in Side Impact and Rollover Scenarios	Engineering	99	24	0	0	0
Nazzareno D'Avanzo	Université de Montréal	Computational Studies of Ion Channel Biophysics and Drug Binding	Biological and Life Sciences	239	38	0	0	0
Mark Daley	University of Western Ontario	Finding Nonlinear Relationships in fMRI Time Series with Symbolic Regression	Computer and Information Science	93	0	0	0	0
Mark Daymond	Queen's University	Irradiation induced damage structures in zirconium	Engineering	74	0	0	0	0
Anne de Vernal	Université du Québec à Montréal	Arctic and subarctic environments under "warm" climate conditions	Environmental and Earth Science	69	10	0	0	0
Jeffrey Defoe	University of Windsor	Simulation of Fan Aerodynamics and Aero-Acoustics in Non-Uniform Flows	Engineering	50	0	0	0	0
Doug Degenstein	University of Saskatchewan	Atmospheric Species Retrievals for Climate Change Investigation	Physics	333	0	0	0	0
Entcho Demirov	Memorial University of Newfoundland	Modeling of climate dynamics in the Subpolar North Atlantic	Environmental and Earth Science	0	0	0	0	0
Claire Deschênes	Université Laval	Fluid-structure simulations of hydraulic turbine transient and low-load operation	Engineering	151	20	0	0	0
Maxime Descoteaux	Université de Sherbrooke	Improving dMRI processing on the Human Connectome Project datasets	Medical Science	94	0	0	0	0
Cecile Devaud	University of Waterloo	Computational Fluid Dynamics applied to turbulent reacting flows	Engineering	133	0	0	0	0
Bianca Dittrich	Perimeter Institute for Theoretical Physics	Continuum limit via tensor network renormalization of quantum gravity models	Physics	80	2	0	0	0
Ned Djilali	University of Victoria	Modeling of "PEM Fuel Cells" and "Sudden Hydrogen Leakage"	Engineering	268	10	0	0	0
Eric Donovan	University of Calgary	Remote Sensing the Near Earth Space Environment	Physics	0	430	0	0	0
Arnaud Droit	Université Laval	Computational biology resources for Early Detection of Breast Cancer	Medical Science	101	36	0	0	0

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Jacques Drouin	Université de Montréal	Genetic and epigenetic mechanisms of gene regulation	Biological and Life Sciences	0	50	0	0	0
Marie-Pierre Dubé	Université de Montréal	Pharmacogenomics Research	Medical Science	116	0	0	0	0
Guy Dumas	Université Laval	CFD for Green Energy Production Systems	Engineering	298	10	0	0	0
Seth Dworkin	Ryerson University	Parallel Simulation and Model Development of Pollutant Formation in Biofuel Combustion	Engineering	2160	0	0	0	0
Juergen Ehling	University of Victoria	Emerging threats for Douglas-fir trees: Understanding Swiss Needle Cast disease on a molecular level	Biological and Life Sciences	50	0	0	0	0
Michael Eikerling	Simon Fraser University	Theory, Modeling and Simulation of Electrochemical Materials	Chemistry and Biochemistry	176	20	0	0	0
Ashraf El Damatty	University of Western Ontario	Towards Sustainable Structures that Can Efficiently Resist Wind Loads	Engineering	50	0	0	0	0
Ann English	Concordia University	Modeling methionine-aromatic interactions in proteins	Chemistry and Biochemistry	60	2	0	0	0
Aaron Erlich	McGill University	Studying Government Responsiveness and Censorship in Mexico	Social Science	0	50	0	0	0
Robert Fedosejevs	University of Alberta	Laser Fusion Energy – Fast Ignition and Shock Ignition	Physics	215	52	0	0	0
Ulrich Fekl	University of Toronto	Quantum Chemistry to Aid Design and Understanding of Functional Molecules	Chemistry and Biochemistry	40	0	0	0	0
Tobin Filleter	University of Toronto	Multiscale mechanics of nanostructured materials	Engineering	257	10	0	0	0
Alessandro Forte	Université du Québec à Montréal	Numerical Reconstructions of Earth's Thermal Evolution	Physics	483	0	0	0	0
Leonard Foster	University of British Columbia	Protein interactomes by high-content protein correlation profiling	Biological and Life Sciences	209	180	0	260	0
Andrew Frey	University of Winnipeg	Black Hole Formation in Anti-de Sitter Spacetime	Physics	72	0	0	0	0
Ian Frigaard	University of British Columbia	Non-Newtonian and multi-phase fluid flows in industry and nature	Engineering	74	0	0	0	0
Ichiro Fujinaga	McGill University	Single Interface for Music Score Searching and Analysis	Computer and Information Science	0	20	0	0	22
Thian Yew Gan	University of Alberta	Climate change impact on severe storms of central Alberta – Phase III	Engineering	70	10	0	0	0

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James Gauld	University of Windsor	Multi-scale Computational Enzymology	Chemistry and Biochemistry	177	0	0	0	0
Raynald Gauvin	McGill University	Develop the simulation softwares to improve the understanding of new materials using scanning electron microscope	Engineering	56	0	0	0	0
Robin Gras	University of Windsor	Analysis of a predator-prey evolving ecosystem simulation	Computer and Information Science	104	107	0	0	0
Simon Gravel	McGill University	Computational population genetics	Biological and Life Sciences	60	30	0	0	0
Celia Greenwood	McGill University	Development of statistical analysis methods for genetic and genomic data	Mathematics and Statistics	50	0	0	0	0
Charles Greer	McGill University	Genomics characterization of cyanobacterial blooms and Canada's high Arctic ecosystems.	Environmental and Earth Science	91	110	0	0	0
Clinton Groth	University of Toronto	Accurate, Robust, and Scalable Computational Methods for Large-Scale Simulations of Multi-Scale Physically-Complex Flows	Engineering	2400	50	0	0	0
Elin Grundberg	McGill University	Integrative metabolic disease genomics and epigenomics in human populations	Medical Science	134	200	0	0	0
Joerg Gsponer	University of British Columbia	Simulating autoinhibition in the ETS family	Chemistry and Biochemistry	0	0	10	0	0
Hong Guo	McGill University	Modeling and simulation of emerging electronic materials for nanoelectronics and artificial photosynthesis	Physics	2320	0	12	0	0
David Guttman	University of Toronto	Comparative genomics, metagenomics and metatranscriptomics Total		173	5	0	0	0
Wagdi Habashi	McGill University	Multi-physics Analysis and Design of Aerospace Systems	Engineering	399	2	0	0	0
Ian Hamilton	Wilfrid Laurier University	Semiconductor Nanocrystals and Gold Nanostructures	Chemistry and Biochemistry	84	0	0	0	0
Thad Harroun	Brock University	Molecular dynamics study of nanoparticle Newton's cradles	Biological and Life Sciences	349	0	0	0	0
Pierre Harvey	Université de Sherbrooke	Matériaux photoniques à transferts d'énergie, d'électron et à effet antenne ultra-rapide	Chemistry and Biochemistry	99	0	0	0	0
Moritz Heimpel	University of Alberta	Modelling Planetary Fluid Flow and Magnetic Field Generation	Physics	256	14	0	0	0

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Falk Herwig	University of Victoria	Hydrodynamics in stars and the origin of the elements	Astronomy	1293	218	0	0	40
Jean-Pierre Hickey	University of Waterloo	Acoustic forcing in high-speed flows	Engineering	154	30	0	0	0
Holger Hoos	University of British Columbia	Automated Design, Optimisation and Customisation of Performance-Critical Software	Computer and Information Science	199	18	0	0	0
Scott Hopkins	University of Waterloo	The Structures and Properties of Complex Systems	Chemistry and Biochemistry	182	0	0	0	0
Yi Huang	McGill University	Climate change modeling and radiative forcing diagnosis	Environmental and Earth Science	58	250	0	0	0
Eveline Ibeagha-Awemu	Université de Sherbrooke	Genomic factors of bovine paratuberculosis resistance: Host-pathogen interactome study to reveal the MAP mechanisms to counteract the host	Biological and Life Sciences	0	0	0	0	0
Radu Ion Iftimie	Université de Montréal	Molecular mechanism of acid-base reactions in chemistry and biochemistry	Chemistry and Biochemistry	422	0	0	0	0
Natalia Ivanova	University of Alberta	Strong stellar interactions	Astronomy	55	32	10	0	0
Artur Izmaylov	University of Toronto	Modeling molecular dynamics on metallic surfaces	Chemistry and Biochemistry	566	1	0	0	0
Nada Jabado	McGill University	Molecular diagnosis and identification of new drug targets for pediatric brain cancers	Medical Science	50	205	0	0	0
ZhenMing (Jack) Jack	York University	Leveraging Data Analytics Techniques to Understand and Improve Software engineering Problems and Processes	Computer and Information Science	0	6	0	128	0
Hans-Arno Jacobsen	University of Toronto	Large-scale Internet Platforms	Computer and Information Science	149	0	4	0	0
Sébastien Jacquemont	Université de Montréal	The effect on cognition, brain structure and connectivity of genomic variants associated with Neurodevelopmental disorders	Medical Science	0	35	0	0	0
Pierre-Étienne Jacques	Université de Sherbrooke	Genomics and Genetics data analysis	Biological and Life Sciences	87	0	0	0	0
Sangyong Jeon	McGill University	Hard and Soft Probes of QCD Matter under Extreme Conditions	Physics	882	286	0	0	0
Zhehui Jin	University of Alberta	Phase Behavior and Flow of Hydrocarbons in Shale Nanopores	Engineering	0	0	0	0	0

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Craig Johansen	University of Calgary	Compressible Flow Simulation and Control	Engineering	398	0	0	0	0
Edward Johnson	University of Calgary	Developing a process model of fire frequencies	Environmental and Earth Science	0	0	0	0	0
Erin Johnson	Dalhousie University	Density-Functional Study of Intermolecular Interactions: Applications to Solids and Surfaces	Chemistry and Biochemistry	286	0	0	0	0
Paul Johnson	Université Laval	Wavefunction methods for strong and weak electron correlation in quantum chemistry	Chemistry and Biochemistry	0	0	0	0	0
Sheena Josselyn	Hospital for Sick Children	Examining memory: Optical interrogation of a mouse brain	Medical Science	94	0	0	0	0
Apostolos Kantzas	University of Calgary	Modeling and Simulation of the Pore-level Displacements in 3-D natural porous media patterns for the study of Enhanced Oil Recovery	Engineering	185	22	0	0	0
Raymond Kapral	University of Toronto	Synthetic motors and protein machines	Chemistry and Biochemistry	383	0	40	0	0
Richard Karsten	Acadia University	Numerical Simulation of Tidal Energy Sites	Mathematics and Statistics	77	150	0	0	0
Victoria Kaspi	McGill University	Large-Scale Searches for Radio Pulsars, RRATs, and Fast Radio Bursts	Astronomy	1177	35	0	0	0
Hae-Young Kee	University of Toronto	Designing Advanced Quantum Materials	Physics	50	0	0	0	0
Rustam Khaliullin	McGill University	Using localized orbitals to extend the range of first-principle simulations	Chemistry and Biochemistry	219	20	0	0	0
Ali Khan	University of Western Ontario	Computational neuroimaging for surgical planning and intervention	Medical Science	50	215	1	0	0
Philip Kim	University of Toronto	Computational design of libraries for development of inhibitors	Biological and Life Sciences	620	23	0	0	0
George Kirczenow	Simon Fraser University	Physics of Nanostructures	Physics	141	0	0	0	0
Daniel Kirshbaum	McGill University	Large-eddy simulation of cumulus convection	Environmental and Earth Science	50	20	0	0	0
Claudia L. Kleinman	McGill University	Computational approaches to elucidate molecular disease mechanisms	Biological and Life Sciences	0	55	0	0	0
Mariusz Klobukowski	University of Alberta	Computational Modelling of Molecular Systems using Model Core Potential Method	Chemistry and Biochemistry	126	0	0	0	0

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Ben Koop	University of Victoria	Coho and Arctic Charr Fish Genomes	Biological and Life Sciences	114	21	0	0	0
Artem Korobenko	University of Calgary	Predictive Fluid-Structure Interaction Framework for Multiple Wind Turbines in Atmospheric Boundary Layer Flow	Engineering	323	0	0	0	0
Andriy Kovalenko	University of Alberta	Multiscale theory, modeling, and simulation for rational design in nanochemistry, nanoelectronics, nanomaterials, energy, and health applications	Chemistry and Biochemistry	2400	96	40	0	0
Peter Kusalik	University of Calgary	Molecular simulations of nucleation and ordering processes, and of hydroxyl radical in aqueous phases	Chemistry and Biochemistry	596	40	0	0	0
Paul Kushner	University of Toronto	Analyzing Forced and Natural Climate Variability with Earth System Models: Atmospheric and Cryospheric Processes	Environmental and Earth Science	266	100	0	0	0
Patrick Lagüe	Université Laval	Computational studies of the mechanism of action of different proteins playing key roles biological processes	Biological and Life Sciences	187	0	0	0	0
Guillaume Lamoureux	Concordia University	Molecular modeling of proteins and of protein-protein interactions	Chemistry and Biochemistry	196	0	30	0	0
René Laprise	Université du Québec à Montréal	Development, evaluation and improvement of the high-resolution Canadian Regional Climate Model (CRCM5)	Environmental and Earth Science	343	327	0	0	0
Faiçal Larachi	Université Laval	Towards Process Optimization through Diagnosis and Problem-solving in Flotation and Extractive Metallurgy	Engineering	95	2	0	0	0
Julie LaRoche	Dalhousie University	Assessing the metabolic diversity of marine microbiomes through a targeted metagenomics/metatranscriptomic approach	Biological and Life Sciences	139	0	0	0	0
Hugo Larochelle	Université de Sherbrooke	Apprentissage profond appliqué à l'imagerie médicale et l'analyse de séries temporelles	Computer and Information Science	0	0	6	0	0
Gregory Mark Lathrop	McGill University	Data analysis and interpretation for large-scale genomics projects	Medical Science	563	945	0	0	0
Hug Laura	University of Waterloo	Metagenomic analyses of microbial communities at contaminated sites	Biological and Life Sciences	0	200	0	0	0

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Eric Laurendeau	École Polytechnique	Study of three-dimensional transonic buffet and development of fast medium fidelity aerodynamic tools	Engineering	742	0	0	0	0
James LeBlanc	Memorial University of Newfoundland	Investigation of strongly correlated electron systems with computation of two-particle quantities.	Physics	100	10	0	0	0
Martin Leduc	Université du Québec à Montréal	Ensembles polyvalents de projections climatiques régionales à haute résolution pour l'Amérique du Nord et le Québec pour l'étude des impacts locaux des changements climatiques	Environmental and Earth Science	167	85	0	0	0
Christopher Lee	University of Toronto	Dust and Water ice in the Mars atmosphere	Astronomy	0	1	0	0	0
Claude Legault	Université de Sherbrooke	Computational Organic Chemistry : Understanding the Origins of Reactivity and Selectivity	Chemistry and Biochemistry	80	0	8	0	0
Luis Lehner	Perimeter Institute for Theoretical Physics	Multimessenger astronomy with compact binaries & strong gravity	Physics	483	17	0	0	0
Jason Lerch	Hospital for Sick Children	Using imaging to study brain development in the mouse	Medical Science	78	8	0	0	0
Guillaume Lettre	Université de Montréal	Genetics of cardiovascular diseases in Canadians	Biological and Life Sciences	0	70	0	0	0
Laurent Lewis	Université de Montréal	Physical properties of advanced materials – from atoms to large-scale structures	Physics	179	0	0	0	0
Randy Lewis	York University	Heavy hadrons, tetraquarks, and dark matter in lattice quantum field theory	Physics	183	420	0	0	0
Changxi Li	University of Alberta	Identifying functional SNPs to enhance genomic prediction accuracy for feed efficiency and carcass merit traits in beef cattle	Biological and Life Sciences	56	0	0	0	0
Nicole Yee-Key Li-Jessen	McGill University	Agent-based simulations of vocal fold injury and repair	Medical Science	99	40	7	0	0
Fue-Sang Lien	University of Waterloo	Development of a multiscale modeling framework for short-term wind power forecasting	Engineering	162	45	0	0	0
Yajing Liu	McGill University	Earthquake rupture dynamics models in tectonic and glaciated environments	Environmental and Earth Science	50	20	0	0	0
Jane Liu	University of Toronto	Impacts of Canadian Boreal Forest Fires on Air Quality	Environmental and Earth Science	50	60	0	0	0

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Michelle XiaoQing Liu	University of Manitoba	Prioritization in gene mapping for autism spectrum disorder	Biological and Life Sciences	0	18	0	0	0
Joe LoVetri	University of Manitoba	3D ultrasound and microwave imaging algorithms for the advancement of non-destructive, diagnostic imaging technology	Engineering	358	0	0	0	0
Julian Lowman	University of Toronto	Planetary Scale Mantle Convection Modelling	Environmental and Earth Science	492	40	0	0	0
Jesse Maassen	Dalhousie University	First Principles Approach for Predictive Modeling of Electro-Thermal Transport Properties	Physics	3320	0	0	0	0
Justin MacCallum	University of Calgary	Physics-based approaches to integrative structural biology and protein design.	Biological and Life Sciences	75	10	16	0	0
Justin MacCallum	University of Calgary	Physics-based approaches to integrative structural biology and protein design	Biological and Life Sciences	360	200	65	0	0
Yvan Maciel	Université Laval	Direct numerical simulations of strongly decelerated turbulent boundary layers	Engineering	203	62	0	0	0
Steve MacLean	Institut National de la Recherche Scientifique	Simulations of extreme laser light source interaction with matter	Physics	1519	64	0	0	0
Jacek Majewski	McGill University	"Omics" for Medical and Cancer Genetics	Biological and Life Sciences	182	1019	0	0	0
Ameé Manges	University of British Columbia	Applied Public Health Genomics and Metagenomics	Biological and Life Sciences	0	60	0	0	0
Mario Marchand	Université Laval	New Machine Learning Algorithms for Bioinformatics and Beyond	Computer and Information Science	86	168	0	0	0
Bernard Marcos	Université de Sherbrooke	Modélisation du transfert d'énergie local en régime d'écoulement laminaire-instable-tridimensionnel par la méthode de lattice Boltzmann	Engineering	0	0	0	0	0
Éric Marsault	Université de Sherbrooke	Exploration of the structural determinants for biased signaling in the apelin receptor (APJ)	Chemistry and Biochemistry	189	0	0	0	0
Philip Marsh	Wilfrid Laurier University	High Resolution, Physics Based, Hydrological Modelling in Arctic Canada	Environmental and Earth Science	80	60	0	0	0
Hugo Martel	Université Laval	Galaxy Formation, Evolution, and Feedback	Astronomy	105	7	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Randall Martin	Dalhousie University	Computational Resources to Interpret Satellite Observations of Atmospheric Composition for Air Quality and Climate Applications	Environmental and Earth Science	525	780	0	0	0
Remo Masut	École Polytechnique	Ab initio study of piezoelectric alloys based on AlN and on ZnO	Physics	99	2	0	0	0
Christopher Matzner	University of Toronto	Topics in Astrophysical Feedback	Astronomy	255	2	0	0	0
Ulrich Mayer	University of British Columbia	Large-scale and long-term reactive transport analysis of the geochemical stability of sedimentary basins	Environmental and Earth Science	695	0	0	0	0
Art McDonald	Queen's University	Storage and Analysis for SNO, DEAP-1 and other SNOLAB experiments	Physics	20	300	0	0	0
Giuseppe Melacini	McMaster University	Molecular Dynamics Simulation of Biomolecular Complexes Controlling Eukaryotic cAMP-Signaling	Biological and Life Sciences	144	0	0	0	0
Roger Melko	University of Waterloo	Exploring the quantum limits of classical simulation	Physics	458	0	0	0	0
Timothy Merlis	McGill University	Atmospheric circulations and climate change	Environmental and Earth Science	104	0	0	0	0
Evangelos Milios	Dalhousie University	Statistical Text Analysis Based on Big Data	Computer and Information Science	50	110	0	0	0
Alexander Moewes	University of Saskatchewan	Probing new materials with Density Functional theory calculations and synchrotron-based spectroscopy	Physics	113	0	0	0	0
Seyed Moghadas	University of Winnipeg	Computational Agent-Based Models of Infectious Disease Epidemiology	Mathematics and Statistics	903	10	0	0	0
Majid Mohammadian	University of Ottawa	Numerical simulation of Mixing and transport in water resources	Engineering	0	0	0	0	0
Nicolas Moitessier	McGill University	Development and validation of computational methods for drug discovery	Chemistry and Biochemistry	248	0	0	0	0
Luc Mongeau	McGill University	Aero-Acoustics & Bio-Engineering Simulations Using High Performance Computing	Engineering	133	10	7	0	0
Carlo Montemagno	University of Alberta	Developing Biologically Inspired Intelligent and Smart Nanosystems	Engineering	62	14	0	0	0
Stéphane Moreau	Université de Sherbrooke	Direct noise predictions for transport applications	Engineering	2552	21	0	0	0

Resources for Research Groups Competition 2017								
Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Greg Mori	Simon Fraser University	GPU Hardware for Deep Learning in Computer Vision	Computer and Information Science	0	100	10	0	0
Quaid Morris	University of Toronto	Reconstructing tumour evolution	Biological and Life Sciences	216	200	0	0	0
Robert Morris	University of Toronto	Iron-based hydrogenation catalysts	Chemistry and Biochemistry	50	0	0	0	0
Nicholas Mosey	Queen's University	Development and Application of Simulation Methods to Study Friction, Wear and Electrocatalysts	Chemistry and Biochemistry	504	0	0	0	0
Normand Mousseau	Université de Montréal	Simulation de systèmes complexes à l'aide d'algorithmes accélérés	Physics	304	0	0	0	0
Paul Myers	University of Alberta	Physical and Biogeochemical Modelling of the Waters off the Eastern and Northern Coasts of Canada	Environmental and Earth Science	1368	100	0	0	0
Siva Nadarajah	McGill University	Scalable Algorithms for Adaptive High-Order Methods for Computational Aerodynamics	Engineering	230	10	6	0	0
Prasanth Nair	University of Toronto	Computational modeling and design under uncertainty	Engineering	0	10	0	0	0
Hamed Najafabadi	McGill University	Global characterization of gene regulation in human cells	Biological and Life Sciences	102	54	0	0	0
Alireza Najafiyazdi	McGill University	Development of Topological Models for Turbulence	Engineering	69	12	0	0	0
Petr Navratil	TRIUMF	Ab initio calculations for light nuclei with applications to astrophysics	Physics	2538	20	0	0	0
Sergei Noskov	University of Calgary	Computational models for ion and solute transport by membrane proteins and nanopores	Biological and Life Sciences	3163	70	29	0	0
Mathieu Olivier	Université Laval	Numerical simulations of hydraulic energy production systems	Engineering	71	0	0	0	0
Joaquin Ortega	McMaster University	Understanding bacterial ribosome biogenesis to enable antimicrobial discovery	Chemistry and Biochemistry	90	0	0	0	0
Peter Oshkai	University of Victoria	Green Technologies for Canadian Marine Applications	Engineering	244	30	0	0	0
Jocelyn Ozga	University of Alberta	The role of plant hormones in the coordination of fruit development	Biological and Life Sciences	50	30	0	0	0
Geoffrey Ozin	University of Toronto	Computational Investigation of Nanomaterials for Heterogeneous Catalysis	Chemistry and Biochemistry	232	15	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Irina Paci	University of Victoria	Fabrication and properties of complex materials	Chemistry and Biochemistry	790	120	0	0	0
Yuanming Pan	University of Saskatchewan	First-principles calculations of minerals and other Earth materials: Structures and properties	Environmental and Earth Science	278	1	0	0	0
John Parkinson	Hospital for Sick Children	Functional Interrogation of Microbiomes in Health and Disease	Biological and Life Sciences	524	0	0	0	0
MARC PARLANGE	University of British Columbia	Direct and Large Eddy Simulation of Atmospheric Flows in Complex Terrain	Engineering	839	25	0	0	0
Tomi Pastinen	McGill University	High-throughput assessment of genetic and epigenetic population variation	Biological and Life Sciences	383	1100	0	0	0
Gren Patey	University of British Columbia	Molecular Simulations of Liquids, Solutions, and Nucleation Processes	Chemistry and Biochemistry	377	0	0	0	0
Tomas Paus	Baycrest Centre for Geriatric Care	Brain & Body Health	Medical Science	50	55	0	0	0
Paul Pavlidis	University of British Columbia	Mass Research Backup Storage for Michael Smith Laboratories	Biological and Life Sciences	0	683	0	0	0
Joëlle Pelletier	Université de Montréal	Simulating the dynamics of engineered beta-lactamase enzymes: expanding the NMR-accessible timescale	Chemistry and Biochemistry	159	5	0	0	0
Laurence Pelletier	Mount Sinai Hospital	Quantitative Genomics, Proteomics and Cell Biology.	Biological and Life Sciences	338	886	0	0	0
Richard Peltier	University of Toronto	Atmospheric and Geophysical Fluid Dynamics	Environmental and Earth Science	1557	1060	0	0	0
Ue-Li Pen	University of Toronto	Computational Astrophysics	Astronomy	1361	1795	0	0	0
Will Perrie	Dalhousie University	Air-sea interactions, waves, winds, storms and climate change	Environmental and Earth Science	0	300	0	0	0
Gilles Peslherbe	Concordia University	Applications of Quantum Chemistry and Molecular Dynamics Simulations to Materials, Solvation and Biophysics	Chemistry and Biochemistry	294	3	5	0	0
Harald Pfeiffer	University of Toronto	Numerical simulations of compact object binaries: Supporting LIGO and understanding strong-field gravity	Physics	3810	95	0	0	0
Hervé Philippe	Université de Montréal	Phylogénomique et usage des codons chez les virus	Biological and Life Sciences	1709	1	0	0	0
Ugo Piomelli	Queen's University	Numerical simulations of turbulent flows	Engineering	290	120	0	0	0
Steven Plotkin	University of British Columbia	Molecular dynamics of protein misfolding: Applications to neurodegeneration and cancer	Biological and Life Sciences	345	0	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
John Polanyi	University of Toronto	The Motions of Atoms and Molecules in Chemical Reaction	Chemistry and Biochemistry	394	5	0	0	0
Régis Pomès	Hospital for Sick Children	Large-Scale Computational Studies of Biomolecular Structure and Function	Chemistry and Biochemistry	6270	596	34	0	0
Sébastien Poncet	Université de Sherbrooke	Simulation numérique et modélisation des écoulements et des transferts pour des applications en énergétique, biomécanique des fluides et turbomachines	Engineering	670	48	0	0	0
Mauricio Ponga de la Torre	University of British Columbia	Computational design of lightweight materials	Engineering	397	0	0	0	0
David Poulin	Université de Sherbrooke	Quantum error correction benchmark	Physics	0	0	0	0	0
Doina Precup	McGill University	Reinforcement Learning and Big Data	Computer and Information Science	321	0	3	0	0
Bartosz Protas	McMaster University	Helicity-enhanced Extreme Vortex States and the Hydrodynamic Blow-up Problem	Mathematics and Statistics	113	100	0	0	0
Ralph Pudritz	McMaster University	Simulating Radiative and Chemical Processes in the Formation of Star Clusters and Exoplanetary Atmospheres	Astronomy	479	82	0	0	0
Enrico Purisima	National Research Council Canada (NRC-CNRC)	Assisted Design of Antibody and Protein Therapeutics	Chemistry and Biochemistry	50	0	0	0	0
Russell Pysklywec	University of Toronto	Study of the tectonics of the continental mantle lithosphere and lower mantle from 3D computational geodynamics	Environmental and Earth Science	1846	0	0	0	0
Ioannis Ragoussis	McGill University	Single Cell Cancer Genomics	Biological and Life Sciences	172	30	0	0	0
Arvi Rauk	University of Calgary	Computational Research into the Chemistry of Alzheimer's Disease: Peptide-Peptide and Peptide-Metal Interactions	Chemistry and Biochemistry	215	600	0	0	0
Reinhart Reithmeier	University of Toronto	Molecular Dynamics Simulations of Membrane Transport Proteins in Lipid Bilayers	Chemistry and Biochemistry	143	3	0	0	0
Alejandro Rey	McGill University	Multiscale Simulation of Structural, Functional and Energy Materials	Engineering	318	45	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Loren Rieseberg	University of British Columbia	Genome Assemblies of Compositae Crops and Weeds	Biological and Life Sciences	91	10	0	0	0
Federico Rosei	Institut National de la Recherche Scientifique	The formation of two-dimensional polymers and self-assembled molecular networks on surfaces	Physics	314	0	0	0	0
Erik Rosolowsky	University of Alberta	High-Resolution Calibrated Simulations of Star Formation	Astronomy	75	6	0	0	0
Stuart Rothstein	Brock University	A quantum Monte Carlo study of the charge carriers in conducting organic polymers	Chemistry and Biochemistry	191	0	0	0	0
Xavier Roucou	Université de Sherbrooke	Functional proteomics and discovery of novel proteins	Biological and Life Sciences	1224	0	0	0	0
Guy Rouleau	Université de Montréal	High Throughput Sequencing	Biological and Life Sciences	204	375	0	0	0
Jason Rowe	Université Bishop's	Uniform Modeling and treatment of Kepler Lightcurves and Kepler Objects of Interest.	Astronomy	119	80	0	0	0
Christopher Rowley	Memorial University of Newfoundland	New Computational Methods and Applications for Simulations of Biophysical Chemistry	Chemistry and Biochemistry	575	4	18	0	0
Wojciech Rozmus	University of Alberta	Resonant Raman Amplifier For Plasma Based Laser Wakefield Accelerator	Physics	50	10	0	0	0
Oleg Rubel	McMaster University	Multiscale Material Modelling for Energy Applications	Physics	0	0	0	0	0
Mauricio Sacchi	University of Alberta	Seismic Data Processing, Reconstruction, Imaging and Inversion	Physics	37	0	0	0	0
Dennis Salahub	University of Calgary	Towards the multiscale modeling of (bio)catalytic systems	Chemistry and Biochemistry	1574	0	0	0	0
Edward Sargent	University of Toronto	Computational design of materials for solution-processed light emission, lasing, and photovoltaics	Engineering	632	10	0	0	0
Marinko Sarunic	Simon Fraser University	High-Performance Image Processing and Analysis of Retinal Optical Coherence Tomography for Clinical Application	Engineering	50	100	10	0	0
Agus Pulung Sasmito	McGill University	Computational multiphysics in mining and minerals engineering	Engineering	794	102	0	0	0
Rémy Sauv�e	Universit�e de Montr�eal	Computational approaches to Identify drug binding sites for pharmacological regulation of the KCa3.1 ion channel	Biological and Life Sciences	50	0	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Martin Schmeing	McGill University	Investigation of antibiotic-producing bacterial enzymes	Biological and Life Sciences	0	20	5	0	0
H. Georg Schreckenbach	University of Manitoba	Quantum Chemistry Applied to Diverse Energy and Materials Problems	Chemistry and Biochemistry	141	0	0	0	0
Erwin Schurr	McGill University	Host genetic dissection of tuberculosis and leprosy susceptibility.	Medical Science	51	61	0	0	0
Andrea Scott	University of Waterloo	Assessing the impact of the LANS-alpha model and data assimilation on convection and stratified flow	Engineering	50	12	0	0	0
David Sénéchal	Université de Sherbrooke	Quantum cluster methods for strongly correlated electrons	Physics	80	0	0	0	0
Aaron Shafer	Trent University	Genome assembly and analysis of Canadian ungulates	Biological and Life Sciences	141	120	0	0	0
Alison Sills	McMaster University	Sizes of Globular Clusters in a Variety of Galactic Tidal Fields	Astronomy	50	2	0	0	0
Chandra Veer Singh	University of Toronto	Integrated computational materials engineering for sustainable energy and lightweight structural applications	Engineering	4156	264	0	0	0
Daniel Sinnett	Université de Montréal	Genetic and Genomic Determinants of Childhood Leukemia	Medical Science	151	134	0	0	0
Jesko Sirker	University of Manitoba	Quantum Dynamics out of Equilibrium	Physics	359	0	0	0	0
David Sivak	Simon Fraser University	Statistical biophysics of molecular machines	Physics	50	0	0	0	0
Frances Skinner	University Health Network	Neuron and Network Modeling in Hippocampus and Cortex	Biological and Life Sciences	167	6	0	0	0
William Smith	University of Guelph	Improved Carbon Capture Processes by Discovery of New Solvents using Molecular Simulation	Chemistry and Biochemistry	465	150	25	0	0
Andrei Smolyakov	University of Saskatchewan	Plasma turbulence simulations with applications to electric propulsion, material processing and magnetic fusion	Physics	194	25	0	0	0
Armand Soldera	Université de Sherbrooke	Vision chimique de problèmes macroscopiques	Chemistry and Biochemistry	246	10	0	0	0
Jun Song	McGill University	Predictive nanomaterial design and microstructure engineering via multi-scale modeling	Engineering	2000	10	0	0	0
Erik Sorensen	McMaster University	Computational Quantum Condensed Matter	Physics	278	0	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Ingrid Stairs	University of British Columbia	Long-term Storage of Radio Pulsar and Transient Data	Astronomy	0	116	0	0	0
Nadja Steiner	University of Victoria	The effect of ecosystem complexity on marine ecosystem responses to future changes in the Arctic Ocean	Environmental and Earth Science	50	0	0	0	0
David Steinman	University of Toronto	Turbulent-like blood flow in cerebral aneurysms	Medical Science	129	171	0	0	0
Paul Stothard	University of Alberta	Using DNA sequencing to develop more effective tools for livestock breeding	Biological and Life Sciences	0	82	0	0	0
David Straub	McGill University	Energetics of Ocean Circulation	Environmental and Earth Science	0	80	0	0	0
Martina Stromvik	McGill University	Genome-wide searches for the molecular basis of adaptive traits in complex plant genomes	Biological and Life Sciences	50	180	0	0	0
Roland Stull	University of British Columbia	Ensemble Numerical Weather Forecasts for Clean Energy	Environmental and Earth Science	0	0	0	0	0
Edward Sudicky	University of Waterloo	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	Environmental and Earth Science	40	10	0	0	0
Pierre Sullivan	University of Toronto	High Fidelity Turbulence Modeling for improved Engineering outcomes	Engineering	50	0	0	0	0
Michael Surette	McMaster University	Human Microbiome Metagenomics	Biological and Life Sciences	50	50	0	0	0
Laxmi Sushama	Université du Québec à Montréal	Regional climate model developments and applications for understanding weather and climate processes, predictions and projections	Environmental and Earth Science	880	212	0	0	0
Barbara Szpunar	University of Saskatchewan	Comprehensive Investigations of Accident Tolerant Nuclear Fuel	Physics	80	20	0	0	0
Jerzy Szpunar	University of Saskatchewan	Use of Ab initio in understanding the properties of ATF, to evaluate the EWF of alloys and to understand the chemistry of hydrogen storage in metal decorated graphene.	Engineering	50	30	0	0	0
Tian Tang	University of Alberta	Atomistic Modeling of Molecular Binding, Aggregation and Assembly	Engineering	119	0	0	0	0
Lev Tarasov	Memorial University of Newfoundland	Decoding Ice-Age System Instabilities	Environmental and Earth Science	267	492	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
Rowan Thomson	Carleton University	Advancing computational radiotherapy physics	Physics	149	0	0	0	0
Glen Tibbits	Simon Fraser University	The effect of disease mutations in the cardiac troponin complex	Biological and Life Sciences	239	330	0	0	0
Peter Tieleman	University of Calgary	Computational studies of biological membranes	Chemistry and Biochemistry	7820	1100	352	0	0
David Ting	University of Windsor	Effective Ribbon-Induced Force Convection and Dry Cable Galloping	Engineering	0	0	0	0	0
John Trant	University of Windsor	Computational design of artificial amino acids and peptides for the treatment of autoimmune diseases.	Chemistry and Biochemistry	0	102	0	0	0
Jacquetta Trasler	McGill University	Normal and Abnormal Epigenomic Profiling in Germ Cells and Embryos	Biological and Life Sciences	30	11	0	0	0
Bruno Tremblay	McGill University	Vertical mixing and heat transport in the Arctic Ocean	Environmental and Earth Science	50	10	0	0	0
André-Marie Tremblay	Université de Sherbrooke	Strongly Correlated Superconductivity and Quantum Materials	Physics	1387	4	0	0	0
John Tse	University of Saskatchewan	Physics of Minerals under Extreme Conditions	Physics	265	0	0	0	0
Stephen Tullis	McMaster University	Modeling heat transfer and fluid flow in severe accident core melt pools in CANDU reactors	Engineering	62	0	0	0	0
Martyn Unsworth	University of Alberta	3-D electromagnetic imaging of Earth structure	Environmental and Earth Science	68	0	0	0	0
Michiel van de Panne	University of British Columbia	Acquisition of Motor Skills Using Deep Reinforcement Learning	Computer and Information Science	0	2	0	0	0
Elijah Van Houten	Université de Sherbrooke	Non-linear Elastography Reconstruction	Medical Science	86	8	0	0	0
Lennaert van Veen	University of Ontario Institute of Technology	Towards an explanation of inertial range dynamics using simple invariant solutions	Mathematics and Statistics	99	0	0	0	0
Brian Vermeire	Concordia University	High-Order Unstructured Methods for Large Eddy Simulation and Shape Optimization	Engineering	91	0	37	0	0
Guifre Vidal	Perimeter Institute for Theoretical Physics	Tensor networks for emergent quantum many-body phenomena	Physics	829	10	0	0	0
Anthony Wachs	University of British Columbia	Massively parallel multi-scale computing of particle-laden flows	Engineering	556	60	0	0	0

Resources for Research Groups Competition 2017

Principal Investigator	Institution	Project Title	Research Area	2017 Total Compute Allocation (core-years)	2017 Total Storage Allocation (TB)	2017 Total GPU allocation (GPU-years)	2017 Total compute cloud allocation (VCPU)	2017 Total persistent cloud allocation (VCPU)
James Wadsley	McMaster University	Next Generation Cosmological Volume	Astronomy	3293	200	0	0	0
Jerome Waldispuhl	McGill University	Large scale analyse of biological networks	Computer and Information Science	67	100	0	0	0
Stefan Wallin	Memorial University of Newfoundland	The physics of conformational switching in proteins	Physics	50	0	0	0	0
Bing-Chen Wang	University of Manitoba	High-Performance Numerical Simulation of Turbulent Flow and Dispersion	Engineering	199	15	0	0	0
Wyeth Wasserman	University of British Columbia	Optimization of Whole Genome Sequencing in Diagnosis of Rare Genetic Disorders	Biological and Life Sciences	199	0	0	0	0
Stacey Wetmore	University of Lethbridge	DNA Damage: The Formation of Bulky DNA Adducts	Chemistry and Biochemistry	0	36	0	0	0
John Whitehead	Memorial University of Newfoundland	Simulation Studies of Advanced Magnetic Materials	Physics	50	0	0	0	0
Cari Whyne	Sunnybrook Health Sciences Centre	Multimodal image based micro finite element modelling of the spine and craniomaxillofacial skeleton	Engineering	0	0	0	0	0
Hans-Joachim Wieden	University of Lethbridge	Investigating the Design Principles of Protein and Nucleic Acid Molecules	Chemistry and Biochemistry	50	0	21	0	0
Holger Wille	University of Alberta	In silico modeling and simulations of misfolding proteins related to neurodegenerative diseases	Biological and Life Sciences	50	10	4	0	0
Robert Wolkow	University of Alberta	Controlling Silicon Atomic States to Enable Ultra Low Power Quantum Electronics	Physics	1210	6	0	0	0
Xiaohua Wu	Royal Military College of Canada	Discovering the transition mechanism of fundamental aeronautical flows and direct simulation of aero-acoustics	Engineering	306	250	0	0	0
Debra Wunch	University of Toronto	Archiving and data analysis of atmospheric greenhouse gas measurements	Environmental and Earth Science	16	30	0	0	0
Tomasz W. Wysokinski	University of Saskatchewan	The BioMedical Imaging and Therapy (BMIT) facility located at the Canadian Light Source - data depository	Biological and Life Sciences	0	50	0	0	0
Li Xi	McMaster University	Multiscale modeling and simulation for fluid flows and polymer materials	Engineering	476	15	0	0	0
Yunjie Xu	University of Alberta	Non-covalent Interactions in Chirality Recognition and Water Splitting Mechanism	Chemistry and Biochemistry	63	0	0	0	0

Resources for Research Groups Competition 2017								
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Masayuki Yano	University of Toronto	Automated high-fidelity computational fluid dynamics	Engineering	95	0	0	0	0
Man Kong Yau	McGill University	Precipitation forecasting	Environmental and Earth Science	116	30	0	0	0
Sam Yeaman	University of Calgary	Local adaptation in heterogeneous environments: Evolutionary simulation and data analysis	Biological and Life Sciences	238	1	0	0	0
Étienne Yergeau	Institut National de la Recherche Scientifique	Understanding and harnessing the microbiome of plants using of 'omics analyses	Biological and Life Sciences	70	37	0	0	0
Youngki Yoon	University of Waterloo	Carrier Transport in 2D Flexible Electronics	Engineering	134	5	0	0	0
Toby Zeng	Carleton University	Designing high-performance optoelectronics materials and investigation of vibronic and spin-orbit couplings	Chemistry and Biochemistry	83	0	0	0	0
Anton Zilman	University of Toronto	Dynamics of the assemblies of the intrinsically disordered proteins of the Nuclear Pore Complex	Physics	126	0	0	0	0
David Zingg	University of Toronto	Computational Aerodynamics for Development of Next Generation Aircraft with Reduced Emissions	Engineering	6524	32	0	0	0
Athanasios Zovoilis	University of Lethbridge	Identification of sequence variants of repetitive non-coding RNAs connected with cancer and dementia.	Biological and Life Sciences	50	15	0	0	0
Francis Zwiers	University of Victoria	Hydro-climate Projections for British Columbia, Canada	Environmental and Earth Science	309	100	0	0	0
Notes:			Total awarded	133071	26177	896	388	62
These are the allocations as of May 9, 2017.								
"2017 Total Storage Allocation" includes resources awarded in any type of storage (e.g., project, nearline, cloud storage) except for scratch, which is not allocatable								