



VICE-PRINCIPAL (RESEARCH)

Senate Research Report

December 1, 2015

News

Nobel laureate, Professor Arthur McDonald (Physics, Engineering Physics and Astronomy), accepted the [2016 Breakthrough Prize in Fundamental Physics](#) on behalf of the Sudbury Neutrino Observatory (SNO) Collaboration. The SNO collaboration was recognized “for the fundamental discovery of neutrino oscillations, revealing a new frontier beyond, and possibly far beyond, the standard model of particle physics.”

Recipients of this year’s [Queen’s Prize for Excellence in Research](#) are Professors Anne Croy (Biomedical and Molecular Sciences), Jacalyn Duffin (History of Medicine), Mark Diederichs (Geological Sciences and Geological Engineering), and Myra Hird (Environmental Studies). The prize recognizes researchers for major contributions to their field. Recipients are nominated by their peers and will be presented with the prize at convocation ceremonies this fall.

The updated [Research Administration Policy](#) came into effect in October and serves to provide clear direction to faculty, researchers and service units in supporting research excellence at Queen’s.

Research Funding

Researcher	Department	Project Title	Amount
Canadian Institutes of Health Research (CIHR): Foundation Grant			
Archer, Stephen	Medicine	Mitochondrial dynamics and metabolism in pulmonary arterial hypertension	\$3,962,472
Mitacs: Accelerate Graduate Research Internship Program			
Brown, Stephen	Chemistry	New methods and applications for monitoring bacteria in water. Industry partner: Pathogen Detection Systems/Endetec \$36,000.	\$80, 000

Fischer, Steven	Kinesiology and Health Studies	Scientific Validation of the CBI Workplace Solutions PrePlacement Functional Assessment for Canada Post Delivery Agents. Industry partner: CBI Workplace Solutions Ltd. \$7,500.	\$15,000
Morelli, Jordan	Physics, Engineering Physics & Astronomy	Spatial and Temporal Linear Induction Motor Harmonics. Industry partner: Bombardier Transportation Inc. \$45,000.	\$67,500
Natural Sciences and Engineering Research Council (NSERC): Collaborative Research & Development			
Krstic, Vladimir	Mechanical and Materials Engineering	Fabrication and testing red-emitting ceramic phosphor for laser phosphor projection. Industry partner: Christie Digital Systems Canada Inc. \$180,000.	\$360,000
Natural Sciences and Engineering Research Council (NSERC): Connect			
Escobedo, Carlos	Chemical Engineering	Research and development with Baylis Medical	\$1,070
Natural Sciences and Engineering Research Council (NSERC): Engage			
Cicarelli, Gaby	Mechanical and Materials Engineering	DME-methanol fueled RCCI engine testing and development	\$25,000
Liu, Yan Fei	Electrical and Computer Engineering	Feasibility study of using GaN FET for miniaturized notebook computer power adapters	\$25,000
Natural Sciences and Engineering Research Council (NSERC): Idea to Innovate			
Fichtinger, Gabor	School of Computing	Phase I: real-time electromagnetic navigation technology for breast cancer surgery	\$116,800
Natural Sciences and Engineering Research Council (NSERC): Strategic Project			
Cartledge, John	Electrical and Computer Engineering	High capacity coherent transport systems for elastic optical networks	\$433,569

		Industry partner: Ciena Canada Inc. \$48,000.	
Hassanein, Hossam	School of Computing	Robust Crowdsensing for Intelligent Road Services	\$522, 500
Social Sciences and Humanities Research Council (SSHRC): Connection Grant			
Breede, Hans Christian	Political Studies	Human performance enhancement: Capability and connection	\$24, 240
Lord, Susan	Film and Media	The politics and poetics of digitizing Havana, 1959-1968	\$40,333
McKegney, Sam	English	Carceral consciousness and the emancipatory arts	\$22,000
Shilton, Elizabeth	Law	One law for all: Has Weber v Ontario Hydro transformed collective agreement administration and arbitration in Canada?	\$24,795