



VICE-PRINCIPAL (RESEARCH)

Senate Research Report

January 26, 2016

News

The Honourable Kirsty Duncan, Minister of Science, along with NSERC President, Mario Pinto, visited Queen's on Friday, January 8th to [announce a \\$4-million NSERC Discovery Frontiers grant](#) to fund a green energy project led by Queen's Professor Gregory Jerkiewicz. The Engineered Nickel Catalysts for Electrochemical Clean Energy (Ni Electro Can) research team will use the grant to develop the next generation of nickel-based materials for greener and more affordable energy production.

School of Computing Professor, Gabor Fichtinger, was named an Institute of Electrical and Electronics Engineers (IEEE) Fellow — a distinction reserved for members of “extraordinary accomplishment.”

Professor Emeritus and Nobel laureate, Dr. Arthur McDonald (Physics, Engineering Physics and Astronomy), was appointed a Companion of the Order of Canada, which recognizes national pre-eminence or international service and achievement.

Professor Emeritus Geoffrey Smith (School of Kinesiology and Health Studies) received the Lifetime Achievement Award from the Peace History Society. Dr. Smith is only the fifth recipient of the award.

Research Funding

Researcher	Department	Project Title	Amount
Baxter Canadian Hemophilia Epidemiology Research Program (B-CHERP)			
James, Paula	Medicine	The CHIC Study: The Canadian Hemophilia Carriers Study	\$225,000
Conmed Linvatec Canada			
Borschneck, Daniel	Surgery	ACL Human Performance Study	\$15,000

Crohn's & Colitis Foundation of Canada			
Lomax, Alan	Biomedical & Molecular Sciences	Mechanisms and mediators of IBD-related neuroplasticity	\$375,000
IN-CAM Research Network			
Luctkar-Flude, Marian	School of Nursing	Exploring the effect of neurofeedback on postcancer cognitive impairment and fatigue: A pilot feasibility study	\$5,000
Kingston Resuscitation Institute			
Hall, Andrew	Emergency Medicine	Simulation in Canadian Post-Graduate Emergency Medicine Training - A National Survey	\$1,200
Mitacs: Accelerate Graduate Research Internship Program			
Adams, Michael	Biomedical & Molecular Sciences	Developing Vitamin D Therapies to Block Progression of Chronic Kidney Disease	\$120,000
Montreal Institute of Structured Finance and Derivatives Research Grant			
Dudley, Evan	Smith School of Business	Corporate hedging since the financial crisis	\$25,000
Natural Sciences and Engineering Research Council (NSERC): Collaborative Research & Development			
MacDougall, Colin	Civil Engineering	Optimizing the structural performance of oval hollow structural sections. Industry partner contributions from Ankor Engineering Systems Ltd. \$37,500.	\$75,296
NSERC: Discovery Frontiers - New Materials for Clean Energy and Energy Efficiency			
Jerkiewicz, Gregory	Chemistry	Nickel Catalysts for Electrochemical Clean Energy "Ni Electro Can"	\$4,000,000
NSERC: Engage			
Beauchemin, Diane	Chemistry	Development of methods for the characterization of 12 M KOH Zincate fuel for green energy backup systems	\$25,000

This research report is meant to be an illustration of research activity at Queen's University and is based on information provided to the Office of the Vice-Principal (Research) by University Research Services.

Kim, Il Yong	Mechanical and Materials Engineering	Weight and cost optimization of a landing gear slave link using multi-disciplinary topology optimization	\$25,000
NSERC: Idea to Innovate			
Liu, Yan-Fei	Electrical and Computer Engineering	High performance low cost high power LED driver with power factor correction (Phase 1)	\$125,000
NSERC: PromoScience			
Howard, Melanie	Faculty of Engineering and Applied Science	Aboriginal Access to Engineering - Community Engagement	\$228,900
NeuroDevNeT			
Graham, Nicholas	School of Computing	Neuro-exergaming for all: Bringing fun, social engagement and physical activity to children with CP and to children with FASD	\$204,639
Pfizer Canada Inc.			
Ellis, Anne	Medicine	Biphasic anaphylaxis in Kingston: A prospective evaluation of incidence, risk factors, preventative features, and severity	\$37,500