



VICE-PRINCIPAL (RESEARCH)

## *Senate Research Report*

*March 31, 2015*

### News

Dr. Mario Pinto, NSERC President, visited campus on March 13 as part the “Connect with NSERC’s President on a Vision for 2020” cross-country consultation sessions to provide researchers, students, administrators and stakeholders an opportunity to ask questions and give feedback on the NSERC 2020 Strategy Plan. [NSERC has provided a draft document and is soliciting feedback on their website](#) until May 8, 2015.

On February 27, the Tri-Council agencies (CIHR, NSERC and SSHRC) published an official [open access policy on publications](#). The objective of this policy is to improve access to the results of Agency-funded research and to increase the dissemination and exchange of research results. All researchers, regardless of funding support, are encouraged to adhere to this policy. The new policy requires grant recipients awarded funding wholly or in part by CIHR, NSERC and SSHRC after May 1, 2015 to make their peer-reviewed journal publications freely accessible online within 12 months of publication.

Dr. Ahmed Hassan (School of Computing) has been named the CACS/AIC Outstanding Young Computer Science Researcher for 2014. This award is sponsored by Canadian Association of Computer Science/Association d'Informatique Canadienne, and will be presented to Dr. Hassan in May.

### Research Funding

Researcher	Department	Project Title	Amount
<b>AUTO 21: Knowledge and Technology Transfer Fund</b>			
Diak, Bradley	Mechanical & Materials Engineering	Tailor-Welded Blank Manufacturing of Mg Alloy Parts	\$1500
<b>Canadian Institutes of Health Research: Industry Partnered Collaborative Research Grant</b>			

Redfearn, Damian	Medicine, Division of Cardiology	Optimizing contemporary sequential mapping of atrial fibrillation signals as a strategy to identify novel targets for ablation. Partner contributions from St. Jude Medical Canada Inc. \$297,466.	\$238,789
<b>Mitacs: Accelerate</b>			
Beauchemin, Diane	Chemistry	Towards the commercialization of an infrared-heated sample introduction system and development of an argon recycling system for inductively coupled plasma optical emission spectrometry (ICP-OES)	\$110,000
Oosthuizen, Patrick	Mechanical & Materials Engineering	Development of an Accurate Method for Predicting Heat Transfer in Screw Conveyors	\$15,000
<b>Mitacs: Elevate</b>			
Noureldin, Aboelmagd	Electrical and Computer Engineering	Cooperative Integrated Navigation Systems for GNSS-Challenging Environments	\$57,500
<b>Mitacs: Globalink Research Award</b>			
Moore, Margaret	Political Studies	State-society relations at the margins: Control and Resistance in Turkey's borderlands (1900-2004 and 2004-present)	\$5000
<b>Natural Sciences and Engineering Research Council (NSERC): Collaborative Research and Development Grant (CRD)</b>			

Barz, Dominik	Chemical Engineering	Surfactant-induced electrical transport phenomena in non-polar liquids. Partner contributions from DuPont Canada Inc. \$47,000.	\$94,000
Gahremaninezhad, Ahmad	Robert M Buchan Department of Mining Engineering	Atmospheric oxidation of pyrite: maximizing the elemental sulphur yield. Partner contributions from Barrick Gold Corporation \$116,000	\$232,000
Jain, Praveen	Electrical and Computer Engineering	GaN power electronics converters for hybrid renewable energy systems. Partner contributions from Cistel Technology Inc. \$160,000	\$295,128
Kontopoulou, Marianna	Chemical Engineering	Improvement of melt strength and crystallization kinetics of biopolyesters by reactive extrusion. Partner contributions from DuPont Canada Inc. \$45,000.	\$51,120
<b>NSERC: Engage</b>			
Rowe, R Kerry	Civil Engineering	Developing new scrim reinforced low density polyethylene geomembranes for heap leach pad mining application	\$25,000
Saavedra, Carolos	Electrical and Computer Engineering	Novel Auger Plus Generator	\$25,000
<b>NSERC: Interaction Grant</b>			

Beauchemin, Diane	Chemistry	Towards collaboration with two instrument manufacturers and an analytical services laboratory	\$3000
<b>The Ontario Mental Health Foundation: Type A Grant</b>			
Harkness, Kate	Psychology	Stress sensitivity and reward responsivity: An integration of two endophenotypes in major depression	\$148,313