

VICE-PRINCIPAL (RESEARCH)

## Senate Research Report

April 18, 2017

## Strategic Research Plan Renewal

The Queen's Strategic Research Plan (SRP) is a foundational governing document that supports and guides the institutional research mission. Over the past five years it has supported the research landscape at Queen's in a variety of ways – allowing us to enhance our research prominence through targeted areas of focus, successes in external funding, development of

prominence through targeted areas of focus, successes in external funding, development of internal funding programs, engagement of trainees, and innovation and partnership activities.

The current iteration of the SRP will conclude at the end of 2017. Over the past several months, we have started the process of communication and consultation to review and refresh the SRP. The Senate Advisory Research Committee (SARC) has been informed of the renewal process and a small writing team will be established to support the drafting of the revised SRP. Engagement with the community through a variety of online and in-person engagements are being planned. The three phases of the renewal are comprised of: 1) Planning, consultation and feedback, 2) Drafting the SRP and soliciting feedback, and 3) Revision of the SRP draft followed by a consultation phase culminating in Senate approval.

A foundational principle underlying the strategic research plan is a commitment to equity, diversity and inclusion, as addressed by the Principal's Implementation Committee on Racism, Diversity, and Inclusion, coupled with the recommendations of the Queen's University Truth and Reconciliation Commission Task Force. These principles are important for the enhancement of our research prominence through faculty renewal and emerging or established strategic themes of focus.

An initial communication has been posted on the <u>Office of the Vice-Principal (Research)</u> <u>website</u>, which will be updated regularly to provide information on process and timelines. Updates will also be provided through the Senate Research report.

## <u>News</u>

The Honorable Reza Moridi, Minister of Research, Innovation and Science, visited Queen's on March 14 to announce <u>\$4.5M in funding</u> for four Queen's researchers from the Ontario Research Fund – Research Excellence and Research Infrastructure programs. See table below.

On April 3, the 2016 winners of the <u>Prizes for Excellence in Research</u> presented public lectures to members of the Queen's and Kingston community. The presenters were:

- Gauvin Bailey (Art History & Art Conservation)
- James Cordy (School of Computing)
- Janet Hiebert (Political Studies)
- Myra Hird (School of Environmental Studies, 2015 recipient)
- Stephen Vanner (Medicine)
- Virginia Walker (Biology)

On April 20, the Office of the Vice-Principal (Research) will host a day-long <u>Faculty Writing</u> <u>Retreat</u> at the Donald Gordon Centre focused on research funding applications.

Dr. Stephen Lougheed (Biology) was named the recipient of the 2016 <u>Partners in Research Science Ambassador Award</u>.

Dr. Guy Narbonne (Geological Sciences and Geological Engineering) was awarded the <u>2017 E.R. Ward Neale Medal</u> from the Geological Association of Canada for his "exceptional scientific discovery and commitment to public outreach."

## Research Funding

Researcher	Department	Project Title	Amount		
Bickell Foundation – Medical Research					
Wells, Laura	Chemical	Designing better intraocular	\$58,800		
	Engineering	lenses for cataract patients -			
		determining the role of			
		neutrophils and materials in			
		posterior capsule			
		opacification			
Canada Foundation for Innovation – Major Science Initiatives Fund					
Smith, Nigel	SNOLAB	SNOLAB Facility Operations	\$28,809,614		
Canadian Cancer Society Research Institute					
Dancey, Janet	Canadian Cancer	Canadian Cancer Trials	\$23,500,000		
	Trials Group	Group – CCSRI Program			
Natural Sciences and Engineering Research Council of Canada – Collaborative Research and					
Development Grant					
Kim, Il Yong	Mechanical and	Automotive weight reduction	\$48,000		
	Materials	through nonlinear finite			
	Engineering	element modeling, fatigue			

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		analysis, and optimization of				
		hot stamped ultra-high				
		strength steels				
NSERC – Engage Grant						
Loock, Hans-Peter	Chemistry	Optical sensor for improved	\$24,400			
		copper production				
Networks of Centres of Excellence – BioFuelNet						
Mabee, Warren	Geography and	Knowledge Translation -	\$50,000			
	Planning	Policy options for advanced				
		biofuel sustainability				
		Knowledge Translation - A	\$10,000			
		visual scenario for an				
		oilsands biorefinery				
Networks of Centres of Excellence – Canadian Arrhythmia Network						
Glover, Benedict	Medicine	Patient-Centred AF	\$171,903			
		Management Program				
		(PCAF) – Motivations of				
		patients with known atrial				
		fibrillaton in various				
		emergency departments: A				
		mixed methods survey				
Ministry of Research, Innovation and Science: Ontario Research Fund – Research Excellence Program						
Jain, Praveen	Electrical and	Eco-friendly Nano PV Energy	\$4,000,000			
,	Computer	System	, , , , , , , , , , , , , , , , , , , ,			
	Engineering					
MRIS: Ontario Resear	rch Fund – Research Infra	structure Program				
Braun, Alexander	Geological Sciences	Reservoir monitoring using	\$180,000			
	and Geological	superconducting gravimetry				
	Engineering					
Gallivan, Jason	Biomedical and	Neural mechanisms	\$150,000			
	Molecular Sciences	underlying cognitive				
		transformations for human				
		goal-directed action				
Martin, Ryan	Physics, Engineering	Germanium detectors to	\$250,000			
, , , , <del>,</del> -	Physics and	understand neutrinos and				
	Astronomy	dark matter				
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Mitacs – Accelerate					
Munoz, Doug	Biomedical and Molecular Sciences	KINARM Standard Tests' Task Scores: towards a validated and effective tool for communicating to clinical communities KINARM measures of brain function	\$15,000		
Mitacs – Globalink Research Grant					
Bryant, Tim	Mechanical and Materials Engineering	Controlled passive energy management in prosthetic foot components: cosmetic cover design and performance during simulated gait	\$5,000		
Ontario Institute for Cancer Research – Ontario Molecular Pathology Research Network (OMPRN) Cancer Pathology Translational Research Grants					
Rauh, Michael	Pathology and Molecular Medicine	Path2MyDx: Personalized molecular pathology for Myeloid Cancer Diagnosis	\$207,842		
Varma, Sonal	Pathology and Molecular Medicine	Ezrin as a novel biomarker for response to chemotherapy in breast cancer	\$207,838		