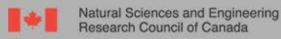
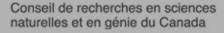
#### People. Discovery. Innovation. Les gens. La découverte. L'innovation.











### Dalhousie University NSERC Information Session

Stacey Lee-Jenkins, Program Officer (EG1508)

Guest: Alison Thompson, EG1504

Tuesday, July 18th, 2017







#### **Presentation Overview**

- How to apply for a Discovery Grant
  - Overview of process
  - Selection criteria

- NSERC Updates (if time permits)
- 2017 Competition Results (if time permits)

#### Life Cycle of a Discovery Grant Application

#### **August**

Submission of notification of intent to apply

(due Aug. 1)

#### **September**

Internal assignment to EG

#### **October**

Selection of external reviewers and preliminary joint review discussions

#### **November**

Submission of application

(due Nov. 1)

#### **December**

Members receive applications and begin reviewing

#### **January**

Members review applications and external reviewer reports are received

#### **February**

Grants competition

#### March/April

Announcement of results

### **Notification of Intent to Apply (NOI) Overview**

Deadline: August 1<sup>st</sup> - Mandatory

#### Main components:

- Research topics, keywords, title
- Summary of proposal
- Suggested external reviewers
- Canadian Common CV (CCV)

#### Submission:

Research Portal

# Notification of Intent to Apply Purpose

#### Facilitates preliminary assignments:

- to an Evaluation Group;
- of internal reviewers; and
- of external reviewers

#### First indication of joint review

- Informed by research topics, keywords, and proposal summary
- First review of subject matter eligibility

### Notification of Intent to Apply Tips

#### Select appropriate research topics

- First selected must be from suggested EG
- Helps identify potential joint reviews

#### Submit a detailed summary

- Helps internal reviewers select appropriate external reviewers
- Helps identify potential joint reviews

### Select appropriate suggested external reviewers

Be mindful of conflicts and expertise

### **Notification of Intent to Apply Joint Reviews - Evaluation Groups**

- Genes, Cells and Molecules (1501)
- Biological Systems and Functions (1502)
- Evolution and Ecology (1503)
- Chemistry (1504)
- Physics (1505)
- Geosciences (1506)
- Computer Science (1507)
- Mathematics and Statistics (1508)
- Civil, Industrial and Systems Engineering (1509)
- Electrical and Computer Engineering (1510)
- Materials and Chemical Engineering (1511)
- Mechanical Engineering (1512)

### **Notification of Intent to Apply Joint Reviews - Conference Model in Action**

	Participating (Visiting) Evaluation Group													
		GCM	BSF	EE	Chem	Phys	Geo	cs	MS	CISE	ECE	МСЕ	ME	Total
	GCM		61	10	5	6	0	3	5	0	0	6	2	98
	BSF	40		15	8	2	1	6	2	3	1	4	7	89
dno	EE	18	23		1	0	26	3	10	0	0	0	0	81
n Gro	Chem	13	1	1		5	2	0	0	2	0	5	0	29
Reviewing (Home) Evaluation Group	Phys	1	1	0	9		4	4	9	0	8	3	2	41
	Geo	0	2	15	2	6		3	3	11	4	1	0	47
	cs	5	3	0	0	1	1		18	3	8	1	2	42
H) gu	MS	7	0	2	0	8	0	11		4	4	1	5	42
/iewi	CISE	0	5	0	0	0	7	5	3		5	5	4	34
Re	ECE	1	6	0	1	10	2	14	2	1		4	4	45
	MCE	8	2	0	8	3	1	0	4	8	5		6	45
	ME	1	2	0	0	1	1	2	0	3	7	15		32
	Total	94	106	43	34	42	45	51	56	35	42	45	32	625

#### Notes:

Applications involving members from more than one other EG (i.e. more than 2 EGs participating in the review) appear more than once.

Joint reviews involving more than one member from the same EG appear only once.

Reviews involving different streams of the same EG, without participation from other EGs, do not appear.

### **Discovery Grant Application Overview**

■ **Deadline:** November 1<sup>st</sup> - internal deadlines are earlier

#### Main components:

- Application for a grant
- Research proposal
- Samples of research contributions
- Budget and justification
- Canadian Common CV (CCV)

#### Submission:

- Research Portal

### **Grants Competition Review Process**

#### **Step 1: Merit Assessment**

- Three equally weighted criteria:
  - Excellence of the Researcher
  - Merit of the Proposal
  - Contribution to Training of Highly Qualified Personnel (HQP)
- Uses six-point scale
  - From exceptional to insufficient

### **Grants Competition Review Process**

#### Merit Indicators "Grid"

	DISCOVERY GRANTS MERIT INDICATORS <sup>1</sup>											
	Exceptional	Outstanding	Very Strong	Strong	Moderate	Insufficient						
Excellence of the Researcher	Acknowledged as a leader who has continued to make, over the last six years, influential accomplishments at the highest level of quality, impact and/or importance to a broad community.	The accomplishments presented in the application were deemed to be far superior in quality, impact and/or importance to a broad community.	The accomplishments presented in the application were deemed to be of superior quality, impact and/or importance.	The accomplishments presented in the application were deemed to be solid in their quality, impact and/or importance.	The accomplishments presented in the application were deemed to be of reasonable quality, impact and/or importance.	The accomplishments presented in the application were deemed to be below an acceptable level of quality, impact and/or importance.						
Merit of the Proposal	Proposed research program is clearly presented, is extremely original and innovative and is likely to have impact by leading to groundbreaking advances in the area and/or leading to a technology or policy that addresses socio-economic or environmental needs. Long-term vision and short-term objectives are clearly defined. The methodology is clearly defined and appropriate. The proposal and budget clearly demonstrate how the research activities to be supported are distinct from and complement those funded by other sources.	Proposed research program is clearly presented, is highly original and innovative and is likely to have impact by contributing to groundbreaking advances in the area, and/or leading to a technology or policy that addresses socio-economic or environmental needs. Long-term goals are clearly defined and short-term objectives are well planned. The methodology is clearly described and appropriate. The proposal and budget clearly demonstrate how the research activities to be supported are distinct from and complement those funded by other sources.	Proposed research program is clearly presented, is original and innovative and is likely to have impact by leading to advancements and/or addressing socio-economic or environmental needs. Long-term goals are defined and short-term objectives are planned. The methodology is clearly described and appropriate. The proposal and budget demonstrate how the research activities to be supported are distinct from and complement those funded by other sources.	Proposed research program is clearly presented, is original and innovative and is likely to have impact and/or address socioeconomic or environmental needs. Long-term goals and short-term objectives are clearly described. The methodology is described and appropriate. The proposal and budget demonstrate how the research activities to be supported are distinct from and complement those funded by other sources.	Proposed research program is clearly presented, has original and innovative aspects and may have impact and/or address socio-economic or environmental needs. Long-term and short-term objectives are described. The methodology is partially described and/or appropriate. The proposal and budget somewhat demonstrate how the research activities to be supported are distinct from and complement those funded by other sources.	Proposed research program, as presented lacks clarity, and/or is of limited originality and innovation. Objectives are not clearly described and/or likely not attainable. Methodology is not clearly described and/or appropriate. The proposal and budget do not clearly demonstrate how the research activities to be supported are distinct from and complement those funded by other sources.						
Training of HOP	Training record is at the highest level, with HQP contributing to top quality research. Most HQP move on to positions that require highly desired skills, obtained through training received. Research plans for trainees are appropriate and clearly defined. HQP success highly likely.	Training record is far superior to other applicants, with HQP contributing to high-quality research. Most HQP move on to positions that require highly desired skills, obtained through training received. Research plans for trainees are appropriate and clearly defined. HQP success highly likely.	Training record is superior to other applicants, with HQP contributing to quality, original research.  Many HQP move on to appropriate positions that require desired skills, obtained through training received. Research plans for trainees are appropriate and clearly described. HQP success is likely.	Training record compares favourably with other applicants. HQP generally move on to positions that require desired skills, obtained through training received. Research plans for trainees are appropriate and described. HQP success is likely.	Training record is acceptable but may be modest relative to other applicants. Some HQP move on to programs or positions that require desired skills, obtained through training received. Plans for trainees are described and should contribute to HQP success.	Training record is below an acceptable level relative to other applicants. HQP do not, in general, move on to positions that require skills obtained through training received. Plans for trainees are not appropriate or are not described with enough information to predict likelihood of HQP success.						

The Discovery Grants Merit Indicators should be used in conjunction with the Peer Review Manual (Chapter 6) which outlines how reviewers arrive at a rating.

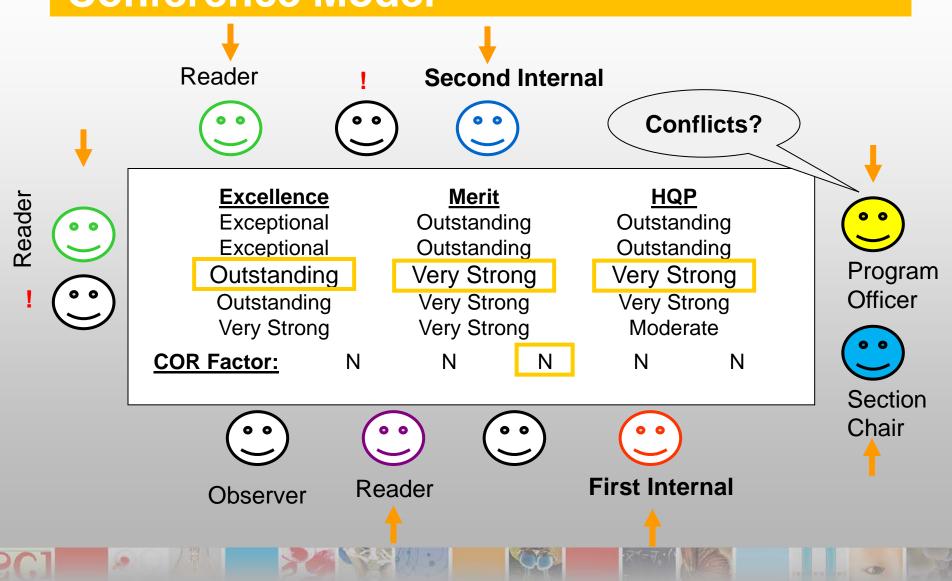
High Normal Low

Majority of justified expenses represent costs higher than the norm for the research area.

Majority of justified expenses are lower than the norm for the research area.

<sup>&</sup>lt;sup>2</sup> Possible examples include: Cost of training of HQP; Equipment intensive research and/or high users fees; particularly expensive or frequent consumables; Travel (for collaborations, field work, access to facilities, conferences...)

### **Grants Competition Conference Model**



### **Grants Competition Review Process**

#### **Step 2: Funding Recommendations**

- Applications grouped into 'bins' of comparable merit
- Similar overall ratings within an EG receive comparable funding
- Possible adjustment related to the cost of research

### **Grants Competition Review Process**

#### **Step 1: Merit assessment**

	Exceptional	Outstanding	Very Strong	Strong	Moderate	Insufficient	
Excellence of the researcher	хх	x x	X				
Merit of the proposal		x x	x x x				
Contribution to the training of HQP		хх	хх		X		

Outstanding – Very Strong – Very Strong

#### **Step 2: Funding Recommendation**

Funding Bin	Α	В	С	D	E	F	G	Н	I	J	К	•••	Р
Value	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

### **Discovery Grant Application Excellence of the Researcher**

Assessment based on achievements demonstrated over the past **six** years.

- Knowledge, expertise, and experience
- Quality and impact of contributions to NSE research
- Importance of contributions to researchers and end-users

### **Discovery Grant Application Excellence of the Researcher**

Members will assess this using information from:

- Most significant contributions
  - Highlighted quality and impact
- Samples of research contributions
  - Up to 4 attached with application
- CCV contributions, recognitions, activities
  - Additional information on contributions in application

# **Discovery Grant Application Merit of the Proposal**

Assessment based on the following elements:

- Originality and innovation
- Significance and expected contributions to research
- Clarity, scope of objectives, and appropriateness of methodology
- Feasibility
- Appropriateness and justification for the budget
- Relationship to other research support

#### **Discovery Grant Application:**

#### **Merit of the Proposal**

#### Relationship to other research support:

- Budget requested in DG is for different expenses than the ones supported (or to be supported) by other sources.
- The DG proposal is distinct conceptually from research supported (or to be supported) by CIHR and/or SSHRC.
- NEW\* For CIHR Foundation Grant holders or applicants only: convincing evidence that support from DG is essential to carry out the work proposed.

### **Discovery Grant Application Subject Matter Eligibility**

- NSERC supports research whose major challenges lie in the natural sciences and engineering (NSE), other than the health sciences.
- The intended objective(s) of the research must primarily be to advance knowledge in one or more of the NSE disciplines.

\*Updated\* Selecting the Appropriate Federal Granting Agency

\*New\* Addendum to the Guidelines for the Eligibility of Applications Related to Health.

# **Discovery Grant Application Merit of the Proposal**

Members will assess this using information from:

- Research proposal (5 pages)
  - List of references (2 pages)
- Proposed expenditures and budget justification
- Relationship to other research support
  - CIHR and/or SSHRC summary and budget pages
  - CCV research funding history

#### Assessment is based on both:

- the past contributions to training; and
- the future plans for training

Quality **research training** at all levels is valued, including:

- Undergraduate students involved in research;
- Graduate students and postdoctoral fellows;
- Technicians and research associates; and
- Other trainees from non-academic sectors, i.e. government or industry.

#### Past contributions to the training of HQP

Assessment based on training over the past six years

#### \*\*NEW Instructions\*\*

#### Include three components:

- 1. Training environment
- 2. HQP awards and research contributions
- 3. Outcomes and skills gained by HQP

Focus on quality and impact

#### Past contributions to the training of HQP

Other items to consider:

- Explain the level, context, and role in supervision and co-supervision;
- Note delays in training (those taken by the applicant or HQP)

Early Career Researchers (ECRs) should not be rated insufficient solely due to a poor past record of contributions to the training of HQP.

#### Future plans for training

\*\*NEW Instructions\*\*

#### Include two components:

- 1. Training Philosophy
- 2. Research Training Plan

#### Objective of changes for past / plan:

- Give applicants better description of what is expected
- Give members clearer information for review

Evaluation Group will assess HQP using information from:

#### Application:

- Past contributions to HQP training;
- HQP training plan.

#### - CCV

- Supervisory activities and contributions;
- Trained HQP who co-authored should be identified with an asterisk \*;
- Do not use "academic advisor".

### **Discovery Grant Application Tips**

- Read other successful applications
- Ask colleagues and/or your RGO for comments on your application
  - Ask both experts in your field and non-experts to review
- Plan ahead and check institutional deadlines
- Use the resources available

### **Discovery Grant Application Available Online Resources**

- Discovery Grants Information Centre
- Resource Videos
- Peer Review Manual
  - Includes information on each of the three criteria and the merit indicators
- HQP FAQ Document
- Webinars on how to apply
  - NOI and full application stages (French and English)

#### Over to you...

- Questions?
- Comments?

Contact info:



RESGRANT@nserc-crsng.gc.ca (general DG inquiries)



















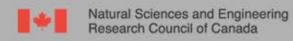






### **NSERC Updates**







#### **NSERC 2020**



Foster a science and engineering culture in Canada



Launch the new generation



Build a diversified and competitive research base



Strengthen the dynamic between discovery and innovation



Go global















#### **NSERC** Framework on Diversity and Gender Equity

Recognizing and integrating diversity and gender equity as key components of research excellence

- ✓ Implementing GBA+ Agency-wide
- ✓ Raising awareness of and mitigating bias
- ✓ Promoting the integration of gender, sex and diversity considerations in the research design and diversity in research teams
- ✓ Increasing equity and diversity on Selection Committees
- ✓ Reporting gender and equity group-disaggregated competition results
- ✓ Consulting and engaging stakeholders

#### **Discovery Grant Updates**

#### **Gender Equity and Diversity – Literature Change**

- Applicants are encouraged to promote approaches that increase the inclusion and advancement of women and other under-represented groups in the natural sciences and engineering, as one means to foster excellence in research and training.
- Applicants should describe their planned approach to promoting participation from a diverse group of HQP, taking into account equity in recruitment practices, mentorship and initiatives aimed at ensuring an inclusive research and work environment.

### Discovery Grant Updates Early Career Researcher - New DG definition

- ECR = within three years of the start date of an NSERC eligible position, and who have no academic or non-academic independent research experience
- For example, for the 2018 competition, to be classified as an ECR, a researcher submitting an NOI in August 2017 would have been hired on or after July 2014.

### Discovery Grant Updates ECR extension option with funds

- ECRs re-applying for the first time will now have the option of extending their DG by one year with funds
- Goal: Allow early stage researchers additional time to better establish themselves and their research program before re-applying to the Discovery Grant program as established researchers

### Discovery Grant Updates DND/NSERC Discovery Grant supplement

- Supporting discovery-based research
- 20 supplements at \$40,000 per year for 3 years
- Eligibility
  - Researchers applying to current DG competition
  - Proposed research must fit within DND defence and security target areas
- Internal DND committee will select recipients
- Results will be announced in the spring
- Contact: <a href="mailto:dndsuppmdn@nserc-crsng.gc.ca">dndsuppmdn@nserc-crsng.gc.ca</a>

# **Discovery Grant Updates Primary Caregiver Policy**

#### **NSERC Policy for New Primary Caregivers (Pilot)**

- In place as of March 1, 2016
- Researchers who become primary caregivers following the birth or adoption of a child and who are eligible for maternity or parental leave but decline the leave, may be eligible to receive a one-year grant extension with funds

# **Discovery Grant Updates Maternity and Parental Leave**

Reminder - NSERC Policy on Paid Maternity / Parental Leave for Students and Postdoctoral Fellows paid from Grants

- Students and Postdoctoral fellows who are supported by NSERC grants and are eligible may receive up to 6 months of paid maternity / parental leave.
- The leave supplement will be paid by NSERC.

#### Discovery Updates RTI Program Update

- University quotas to be removed for the 2018 competition
  - Competition open to all eligible Canadian university researchers
  - Researchers can participate on one application per competition, either as an applicant or a co-applicant, but not both
- Research Portal open in August

#### **Other Updates: Open Access**

### Reminder - Tri-Agency Open Access Policy on Publications

http://www.science.gc.ca/eic/site/063.nsf/eng/h\_F6765465.html

- Researchers must make articles freely available online within 12 months of publication
- Applies to all grants awarded May 1, 2015 and onward
- How to comply:
  - Deposit final, peer-reviewed manuscript in a repository; and/or
  - Submit final, peer-reviewed manuscript to journal that offers open access within 12 months
- Contact: openaccess@nserc-crsng.gc.ca

#### Other Updates: Data Management

 Based on research community feedback, the Tri-Agency Statement of Principles on Digital Data Management was released in June 2016.

http://www.science.gc.ca/eic/site/063.nsf/eng/h\_83F7624E .html?OpenDocument

- Over the coming months, NSERC, SSHRC and CIHR will be seeking input from the research community on draft policy text and how best to realize the principles presented in the Statement.
- Online consultation in coming months visit NSERC's website for news <a href="http://www.nserc-crsng.gc.ca">http://www.nserc-crsng.gc.ca</a>

#### **NSERC** contacts

Research Grants

resgrant@nserc-crsng.gc.ca

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Scholarships and Fellowships

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