



## Land Acknowledgement

As we gather here today, we acknowledge we are on Treaty 6 Territory and the Homeland of the Métis.

We pay our respect to the First Nations and Métis ancestors of this place and reaffirm our relationship with one another.



## Schedule

10:00 – 10.05	Welcome and introductions
10:05 – 10.15	Overview of the Evaluation/Rating process at NSERC
10:15 – 10:30	Tips on HQP, EDI and CCV considerations
10:30 – 10:35	OVPR Internal Review service
10:35 – 11:00	Panel with NSERC DG Evaluation Group members
11:00 – 11:30	Q&A
11:30 – 12:00	RTI session with Q&A
12:00 →	Networking opportunity



## **Presenters and Panelists**

#### Chair

Ron Borowsky, USask NSERC Lead Professor, Psychology (Cognition and Neuroscience).

#### **Presenters**

**Danielle Baron**, Manager Research & Graduate Studies (Ag & Bio.Res.) HQP: Highly Qualified Personnel.

**Tera Ebach**, Research Office Analyst (WCVM) EDI: Equity, Diversity, & Inclusion.

**Graham Fairhurst,** Research Facilitator (SENS) CCV: Canadian Common CV.

**Michaela Lynds**, Research Development Specialist (OVPR) Internal Review service.

**Suresh Tikoo,** Professor (School of Public Health: Vaccinology) RTI session.

#### **Panelists**

**Robert Scott (**EG 1504: Chemistry) Professor, Chemistry.

Cherie Westbrook (EG 1506: Geosciences) Professor, Geography & Planning.

**Raymond Spiteri** (EG 1508: Mathematics & Statistics) *Group Chair* Professor, Computer Science.

**Ildiko Badea** (EG 1511: Materials & Chemical Engineering) Professor, Pharmacy & Nutrition.

**Daniel Chen:** (EG 1512: Mechanical Engineering)
Professor, Mechanical Engineering & Biomedical Engineering.



## Overview of the Evaluation/Rating process at NSERC

## Ron Borowsky

University NSERC Leader, Office of the Vice-President Research
Director, Cognitive Neuroscience Lab
Professor, Cognition and Neuroscience Program
Department of Psychology and Health Studies, College of Arts & Science



## The Merit "Grid"

#### **DISCOVERY GRANTS MERIT INDICATORS**

		The Merit Indicators should be	used in conjunction with the Pee		how reviewers arrive at a rating.		
89	EXCEPTIONAL	OUTSTANDING	VERY STRONG	STRONG	MODERATE	INSUFFICIENT	
Excellence of the	Acknowledged as a <b>leader</b> in terms of research excellence, accomplishments, and service.  Contributions presented in the application are of the <b>highest level of quality</b> .	Research excellence, accomplishments, and service are <b>far superior</b> to others.  Contributions presented in the application are of <b>high quality</b> .	Research excellence, accomplishments, and service are <b>superior</b> to others.  Contributions presented in the application are <b>above average in quality</b> .	Research excellence, accomplishments, and service are significant.  Contributions presented in the application are of good quality.  Research excellence, accomplish and service are reasonable.  Contributions presented in the application are of reasonable quality.		and service are <b>below an acceptable level</b> . Contributions presented in the	
Exce	Impact and importance of the work is clearly evident and groundbreaking.	Impact and importance of the work is clearly evident and influential.	Impact and importance of the work is clearly evident.	Impact and importance of the work is evident.	Impact and importance of the work is somewhat evident.	Impact and importance of the work is not clearly evident.	
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.	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 policy that addresses corenvironmental needs.  on and short-term presented, is original and innovative and is likely to have impact by leading to 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 Long-term goals are defined and		Proposed research program is clearly presented, is original and innovative and is likely to have impact and/or address socio-economic or environmental needs.  Proposed research program is clearly presented, has original and innovative aspects and may have impact and address socio-economic or environmental needs.  Long-term goals and short-term objectives are clearly described.		Proposed research program, as presented lacks clarity, and/or is of limited originality and innovation.	
erito	The methodology is clearly defined and appropriate.	The methodology is <b>clearly</b>	described and appropriate.	The methodology is described and appropriate.	The methodology is partially described and/or appropriate.	The methodology is <b>not clearly</b> described and/or appropriate.	
Σ		nonstrates how the research activities to	be supported are distinct from those fund	ded (or applied for) by other sources.		The application does not clearly demonstrate how the research activities to be supported are distinct from those funded (or applied for) by other sources or does not clearly demonstrate a program of research in the NSE.	
10	environment provided and HQP	Past training is <b>far superior</b> to other applicants in terms of research training environment provided and HQP contributions to research.	Past training is <b>superior</b> to other applicants in terms of the research training environment provided and HQP contributions to research.	Past training compares <b>favourably</b> with other applicants in terms of the research training environment provided and HQP contributions to research.	Past training is <b>modest</b> relative to other applicants in terms of the research training environment provided and HQP contributions to research.	Past training is <b>below an acceptable level</b> in terms of the research training environment provided and HQP contributions to research.	
ersonnel	Most HQP move on to highly impactful positions that require skills gained through the training received.	Most HQP move on to impactful positions that require skills gained through the training received.	HQP generally move on to impactful positions that require skills gained through the training received.	HQP <b>generally</b> move on to positions that require skills gained through the training received.  Some HQP move on to positions that require skills gained through the training received.		HQP <b>rarely</b> move on to positions that require skills gained through the training received.	
Training of Highly Qualified Personnel		Training philosophy and research training plans are far superior: highly appropriate, clearly defined and expected to produce high quality results in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are superior: highly appropriate, clearly defined and expected to produce quality results in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are appropriate and clearly defined in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are partially appropriate and partially defined in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are <b>not appropriate</b> and <b>not clearly defined</b> in terms of the overall approach and specific projects for HQP.	
ning of Hig	field of acceptable and alcoult decoulted	I inclusion specific to the institution <b>and</b>	Challenges related to equity, diversity and inclusion specific to the institution and field of research are described.	Challenges related to equity, diversity and inclusion specific to the institution and/or field of research are described.	Challenges related to equity, diversity and inclusion specific to the institution and/or field of research are partially described.	Challenges related to equity, diversity and inclusion specific to the institution and/or field of research are inaccurate or not described.	
Trai	Specific actions to support the recruitmen inclusive research training environment at		Specific actions to support the recruitment of a diverse group of HQP and an inclusive research training environment are defined.	Specific actions to support the recruitment of a diverse group of HQP and/or an inclusive research training environment are defined.	Specific actions to support the recruitment of a diverse group of HQP and/or an inclusive research training environment are partially defined.	Specific actions to support the recruitment of a diverse group of HQP and/or an inclusive research training environment are not appropriate or not defined.	



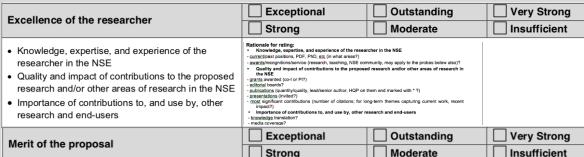




#### Now:

"Equity, diversity and inclusion considerations in the research process (e.g. the research questions, design of the study, methodology, analysis, interpretation, and dissemination of results), are integrated where relevant."





#### Strong

- Originality and innovation
- · Significance and expected contributions to NSE research: potential for policy- and/or technologyrelated impact
- · Clarity and scope of objectives
- · Clarity and appropriateness of methodology
- Feasibility
- Extent to which the scope of the proposal addresses all relevant issues
- Consideration of sex, gender and diversity in the research design, if applicable to the field
- Consideration of interdisciplinary methods or practices in research
- Appropriateness of, and justification for, the budget
- · Demonstration that the DG proposal is distinct conceptually from research supported (or submitted for support) through CIHR and/or SSHRC
- Clear explanation why DG funding is essential to carry out the research proposed in the DG application (for applicants who hold or receive funds from a CIHR Foundation Grant)

#### Rationale for rating:

- use summary to help outline this!
- Originality and innovation
- developed new experimental paradigms, techniques, combined approaches?
- Significance and expected contributions to NSE research; potential for policy- and/or technology-related impact - model/theory development, long-term "story", socioeconomic/environmental impact?
- Clarity and scope of objectives
- long term goals/vision (model/theory?) and short term objectives (experiments/studies?) clearly defined?
- Clarity and appropriateness of methodology
- understandable for general scientific audience, credibility (publications involving these methods)?
- can be done by their lab, has relevant experience (if not, clear plan, but "story" should fit you) Consideration of sex, gender and diversity in the research design, if applicable
- if not applicable, should clearly state why, but give this careful consideration
- Extent to which the scope of the proposal addresses all relevant issues
- you control the scope of this "story", not too big or too small..
- Appropriateness of, and justification for, the budget
- reasonable, use tables for clarity (e.g., funds for HQP in which years), "get the funding then do what you want" Demonstration that the Discovery Grant proposal is distinct conceptually from research supported (or submitted for support) through CIHR and/or SSHRC
- summaries from grants, but clear statements of "no conceptual or budgetary overlap" are helpful
- Clear explanation why Discovery Grant funding is essential to carry out the research proposed in the DG application (for applicants who hold or have applied for a CIHR Foundation Grant)
- why couldn't the CIHR Foundation grant cover this work?

#### Exceptional Outstanding Very Strong Contributions to the training of highly Strong qualified personnel Moderate Insufficient

- Quality and impact of past training
  - · Training environment
  - HQP awards and research contributions
  - Outcomes and skills gained by HQP
- · Quality, suitability and clarity of the planned training
- Training philosophy
  - · Mentorship approach and enhancement of the research and training environment
  - · Challenges or barriers to inclusion and advancement of under-represented groups
  - Planned approach to promote participation of a diverse group of HQP
- · Research training plan for individual HQP

#### Rationale for rating:

Past contributions to the training of HQP

- UGs, Masters, PhDs, PDFs, techs, all count, knowing where they ended up shows you care and are proud!

- lab(s), training, techniques and equipment, academic programming, seminars
- · HQP awards and research contributions
- highlight scholarships and research contributions (students in lead roles?) Outcomes and skills gained by HQP
- HQP go on to PDF, faculty, industry jobs, etc
- Training plan
- pedagogical approaches, frequent interaction (not just "weekly lab meetings"), social aspects (team building),
- HQP research training plan
- name HQP where possible in proposal, and provide details here about who is doing what and why
- EDL of HOP! (see slides from our next 2 presenters)

BE WHAT THE WORLD NEEDS



EXCEPTIONAL	OUTSTANDING	VERY STRONG	STRONG	MODERATE	INSUFFICIENT
Acknowledged as a <b>leader</b> in terms of research excellence, accomplishments, and service.	Research excellence, accomplishments, and service are far superior to others.			Research excellence, accomplishments, and service are reasonable.	Research excellence, accomplishments, and service are <b>below an acceptable level</b> .
Contributions presented in the application are of the highest level of quality.	Contributions presented in the application are of <b>high quality</b> .		[1] 보고 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Contributions presented in the application are of <b>reasonable</b> quality.	Contributions presented in the application are <b>limited</b> in quality.
Impact and importance of the work is clearly evident and groundbreaking.	Impact and importance of the work is clearly evident and influential.	Impact and importance of the work is clearly evident.	Impact and importance of the work is evident.	Impact and importance of the work is somewhat evident.	Impact and importance of the work is not clearly evident.

#### **Excellence of researcher - rationale for rating:**

- Knowledge, expertise and experience of the researcher in the NSE
  - current/past positions, PDF, PhD etc. (in what areas?)
  - awards/recognitions/service (research, teaching, NSE community, may apply to the probes below?)
- Quality and impact of contributions to the proposed research and/or other areas of research in the NSE
  - grants awarded (co-I or PI?)
  - editorial boards
  - publications (quantity/quality, lead/senior author, HQP on them marked with \*?)
  - presentations (invited?)
  - most significant contributions (no. of citations; long term themes capturing current work, recent impact?)
- Importance of contributions to, and use by, other researchers and end-users
  - knowledge translation?
  - media coverage?



EXCEPTIONAL	OUTSTANDING	VERY STRONG	STRONG	MODERATE	INSUFFICIENT				
Proposed research program is clearly	ed research program is clearly Proposed research program is clearly		Proposed research program is clearly	Proposed research program is clearly	Proposed research program, as				
presented, is extremely original and	presented, is extremely original and presented, is highly original and		presented, is original and innovative	presented, has original and innovative	presented lacks clarity, and/or is of				
innovative and is likely to have impact	innovative and is likely to have impact	and is likely to have impact by leading	and is likely to have impact and/or	aspects and may have impact and/or	limited originality and innovation.				
by leading to groundbreaking advances	by contributing to groundbreaking	to advancements and/or addressing	address socio-economic or	address socio-economic or					
in the area and/or leading to a	advances in the area, and/or leading to	socio-economic or environmental	environmental needs.	environmental needs.					
technology or policy that addresses									
socio-economic or environmental needs.									
	needs.								
Long-term vision and short-term	Long-term goals are clearly defined	Long-term goals are defined and	Long-term goals and short-term	Long-term and short-term objectives	Objectives are not clearly described				
objectives are clearly defined.	and short-term objectives are well	short-term objectives are planned.	objectives are clearly described.	are described.	and/or likely not attainable.				
	planned.								
The methodology is clearly defined and	The methodeless is sleady	described and appropriate.	The methodology is described and	The methodology is partially described	The methodology is not clearly				
appropriate.	The methodology is clearly	described and appropriate.	appropriate.	and/or appropriate.	described and/or appropriate.				
					The application does not clearly				
	demonstrate how the research activities to								
The application clearly de	monstrates how the research activities to	he supported are distinct from those fun	ded for applied for) by other sources		be supported are distinct from those funded				
The application clearly der	monstrates from the research activities to	be supported are distilled from those full	aca to applica for ply office sources.		(or applied for) by other sources or does not				
					clearly demonstrate a program of research in				
					the NSE.				

#### Merit of the proposal - rationale for rating:

#### Use summary to help outline this!

- · Originality and innovation
  - developed new experimental paradigms, techniques, combined approaches?
- Significance and expected contributions to NSE research; potential for policy- and/or technology-related impact
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Most HQP move on to highly impactful positions that require skills gained through the training received.	require skills gained positions that require skills gained positions that require skills gained through the require skills gained through the		HQP rarely move on to positions that require skills gained through the training received.		
Training philosophy and research training plans are of the highest quality: highly appropriate, clearly defined and expected to produce top quality results in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are far superior: highly appropriate, clearly defined and expected to produce high quality results in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are superior; highly appropriate, clearly defined and expected to produce quality results in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are appropriate and clearly defined in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are partially appropriate and partially defined in terms of the overall approach and specific projects for HQP.	Training philosophy and research training plans are <b>not appropriate</b> and <b>not clearly defined</b> in terms of the overall approach and specific projects for HQP.
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#### **Training of HQP - rationale for rating:**

#### Past contributions to the training of HQP

- UGs, Masters, PhDs, PDFs, techs, all count, knowing where they ended up shows you care and are proud!
- Training environment
  - lab(s), training, techniques and equipment, academic programming, seminars
- HQP awards and research contributions
  - Highlight scholarships and research contributions (students in lead roles?)
- Outcomes and skills gained by HQP
  - HQP go on to PDF, faculty, industry job, etc.

#### Training plan

- Training philosophy
  - pedagogical approaches, frequent interaction (not just "weekly lab meetings"), social aspects (team building)
- HQP research training plan
  - name HQP where possible in proposal, and provide details here about who is doing what and why
- EDI of HQP (see slides from our next presenters!)

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## Training of Highly Qualified Personnel (HQP)

## **Danielle Baron**

Manager
Research and Graduate Studies
College of Agriculture and Bioresources



#### HQP Considerations (Appendix 5, 2023-24 Peer Review Manual)

## Contributions to the training of highly qualified personnel

- Quality and impact of past training
  - Training environment
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- Quality, suitability and clarity of the planned training
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#### HQP Considerations (Appendix 5, 2023-24 Peer Review Manual)

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  - Research training plan for individual HQP

## **Past training:**

- Don't worry if you are an ECR and this is your first research program!
- Undergrads, Masters, PhD, PDFs, technicians, research assistants, summer students
- Highlight your lab facilities, specialized equipment/techniques, academic programs/training
- Discuss past awards, presentations that HQP did
- Where they are now industry, academia show that you have kept in touch!



#### HQP Considerations (Appendix 5, 2023-24 Peer Review Manual)

## Contributions to the training of highly qualified personnel

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## **Training plan:**



- 1) Training philosophy
- Your approach to supervising students and mentorship
- Team building, frequent (virtual) interactions, pedagogical approaches

## 2) Research training plan

- Do not just list your HQP!
- Describe specifically which HQP will be responsible for which aspects of the research and WHY
- Ensure this is mirrored in your methods section in your proposal
- Can include a Gantt chart in your budget just.
- Use names where possible



# Equity, Diversity, and Inclusion (EDI)

## Tera Ebach

Research Office Analyst
Research and Graduate Studies
Western College of Veterinary Medicine



## **Equity Diversity and Inclusion (EDI) NSERC Discovery Grants**

- 1. Incorporate EDI throughout the grant
- 2. Clearly describe EDI challenges in the Institution and College/Field of Research
- 3. Clearly define your own specific actions for HQP recruitment that address EDI Challenges.
- 4. Clearly define your own specific actions to support an inclusive training environment



## The Canadian Common CV (CCV)

## **Graham Fairhurst**

Research Facilitator
School of Environment and Sustainability



## Completing the Canadian Common CV

## Top tips

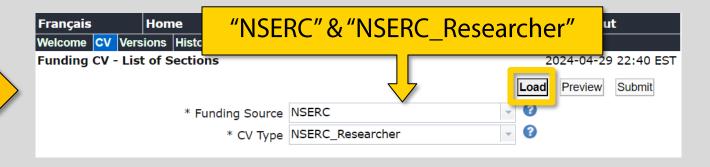
- Start early! Impending deadline = heavy user traffic = problems/lags/crashes
- Use the NSERC CCV template (select 'Funding' on the 'CV' tab)
- Follow the PDF Instruction Guide provided by NSERC in the NSERC template
- Make good use of extra space in text boxes
- Mark your HQP with asterisks following their surnames

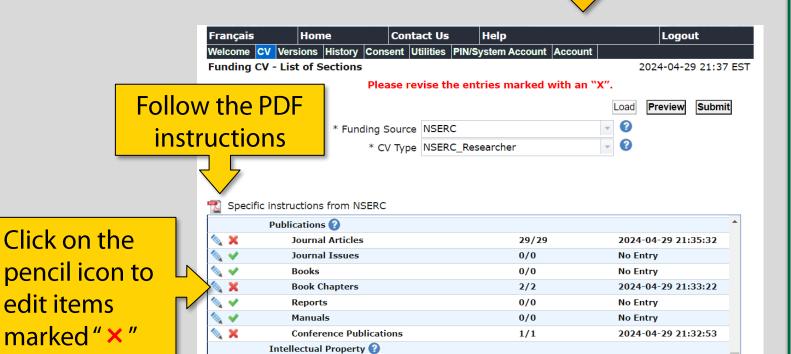
## More advice and examples

- Visit USask's Grants Repository to see samples of CVs from past successful applications (<a href="https://vpresearch.usask.ca/events/grants-calendar.php">https://vpresearch.usask.ca/events/grants-calendar.php</a>)
- Attend the fall CCV and Discovery Grant application clinic (date will be announced later in the summer).
- Contact your Research Facilitator or RASI with questions or issues





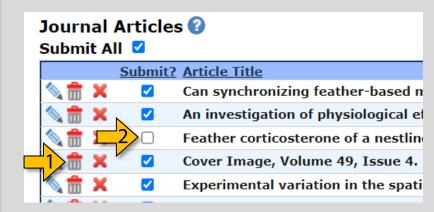




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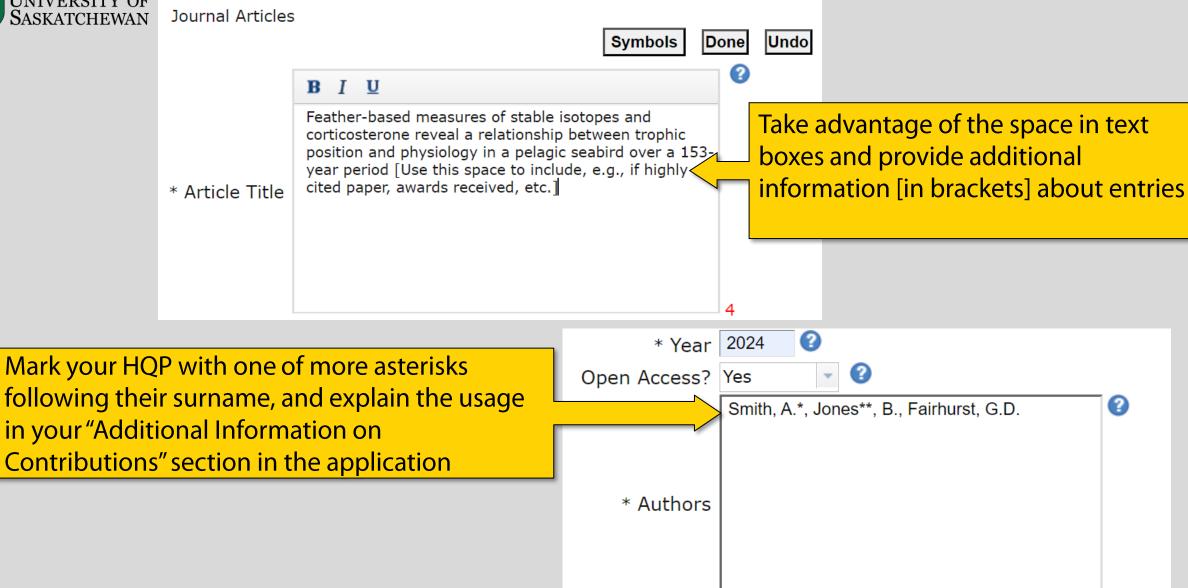
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Patents



- 1. "Trash" unwanted items
- 2. Uncheck boxes to remove items that you want to keep





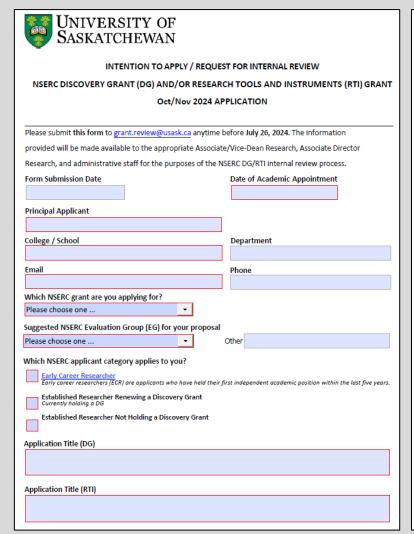
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## Michaela Lynds

Research Development Specialist Office of the Vice President Research





Internal Review Would you like your applic Yes No	ation to be peer review	ed?								
If yes, please suggest 3 USask researchers who would be able to provide an expert and arms-length scientific review without conflict of interest. If you are also applying for RTI grants, these should be the same 3 names you suggested for the DG internal review.										
1. Name		Email								
2. Name		Email								
3. Name	Jame									
For RTI Applicants Onl	For DTI Applicants Only									
In addition to NSERC's Elig or be applying for one of t Strategic Partnerships Gra and/or Canada Excellence Researchers will be able to co-applicant, but not both List of RTI Co-Applicant(s)	the following NSERC re- nts, Collaborative Resea Research Chairs. p participate on one app i. This requirement does	search g arch and plication s not ap	grants at the I Developme I per RTI coi ply to Subat	e timent G	e of appli rants, Car ition, eith Physics a	cation: Di nada Rese ner as an a pplicants.	scovery Grant, arch Chairs, applicant <u>or</u> a			
	Currently Held for KTT ISERC Grant Type	Principa	Applicant	ana (	• • • • • • • • • • • • • • • • • • • •		Amount Awarded			
1	NSERC Grant Type			•						
1	NSERC Grant Type									
1	NSERC Grant Type			-						
1	NSERC Grant Type			-						
1	NSERC Grant Type			-						
1	NSERC Grant Type			-						
1	NSERC Grant Type			-						
1	NSERC Grant Type			•						
1	NSERC Grant Type			•						
Other										



- You can put forward your preferences, but this cannot be guaranteed
- Reviewers can be from your dept./college but there must be no conflicts of interest
- If you are not sure who to suggest, refer to tables in next slides and the <u>List of</u> <u>USask DG/RTI holders (past & present)</u> or contact <u>grant.review@usask.ca</u>
- We encourage applicants to be in regular direct contact with their reviewers.
- Access the form <u>HERE</u>





DG- Evaluation Group	Faculty Name	Department & College	DG- Evaluation Group	Faculty Name	Department & College
1501:	Susan Detmer	Veterinary Pathology, WCVM	1507:	Chanchal Roy	Computer Science, Arts & Science
Genes, Cells & Molecules Troy Harkness BMI, College of Medicine		Computer Science	Julita Vassileva	Computer Science, Arts & Science	
	Meena Sakharkar	Pharmacy & Nutrition		Fangxiang Wu	Computer Science, Arts & Science
	Julia Boughner	APP, College of Medicine		Zadia Codabux	Computer Science, Arts & Science
	Yan Zhou	VIDO			
	Peter Bretscher	BMI, College of Medicine			
	Jack Gray	Biology, Arts & Science			
	Mirek Cygler	BMI, College of Medicine			
	Daniel MacPhee	Veterinary Biomedical Sciences, WCVM			
	Patrick Krone (Emeritus)	Anatomy & Cell Biology, College of Medicine			
1502:	Jaswant Singh	Veterinary Biomedical Sciences, WCVM	1508:	Raymond Spiteri	Computer Science, Arts & Science
Biological Systems &	Joel Lanovaz	College of Kinesiology	Math & Statistics	Longhai Li	Math & Statistics, Arts & Science
Functions	John Howland	APP, College of Medicine		Juxin Liu	Math & Statistics, Arts & Science
	Ron Borowsky	Psychology, Arts & Science			
	Greg Penner	Animal & Poultry Science, AgBio			
	Yangdou Wei	Biology, Arts & Science			
	Jack Gray	Biology, Arts & Science			
	John P Giesy	Veterinary Biomedical Sciences, WCVM			
1503:	Robert Clark	Global Institute for Water Security	1509:	Ehab Diab	Geography & Planning, Arts & Science
Evolution & Ecology	Timothy Jardine	Environment & Sustainability	Civil, Industrial & Systems Engineering		
1504:	David Palmer	Chemistry, Arts & Science	1510:	Ramakrishna Gokaraju	Electrical & Computer Engineering, CoE
Chemistry	Robert Scott	Chemistry, Arts & Science	Electrical & Computer Engineering	Safa O Kasap	Electrical & Computer Engineering, CoE
1505:	John Tse	Physics & Eng. Physics, Arts & Science	1511:	Ildiko Badea	Pharmacy & Nutrition
Physics	Alexander Moewes	Physics & Eng. Physics, Arts & Science	Materials & Chemical	Ajay Dalai	Chemical & Biological Engineering, CoE
	Andrei Smolyakov	Physics & Eng. Physics, Arts & Science	Engineering		
1506:	Cherie Westbrook	Geography & Planning, Arts & Science	1512:	Carey J Simonson	Mechanical Engineering, CoE
Geosciences	Adam Bourassa	Physics & Eng. Physics, Arts & Science	Mechanical Engineering	James Johnston	Mechanical Engineering, CoE
	Yuanming Pan	Geological Sciences, Arts & Science		Xiongbiao Chen	Mechanical Engineering, CoE
	Steven Siciliano	Soil Sciences, AgBio			





RTI Evaluation Group	Faculty Name	Department & College
Genes, Cells & Molecules	Suresh Tikoo	School of Public Health, VIDO
	Thomas Fisher	APP, College of Medicine
	Wei Xiao	BMI, College of Medicine
	Patrick Krone (Emeritus)	Anatomy & Cell Biology, College of Medicine
Environmental Sciences	Robert Clark	Global Institute for Water Security
	Christy Morrissey	Toxicology Centre, College of Arts and Science
Biological Systems and Functions	Jaswant Singh	Veterinary Biomedical Sciences, WCVM
	Valerie Thompson	Psychology College of Arts and Science
Chemistry	Michel Gravel	Chemistry, College of Arts and Science
	Timothy Kelly	Chemistry, College of Arts and Science
Materials & Chemical Engineering	Amira Abdelrasoul	Chemical and Biological Engineering, CoE
	Qiaoqin Yang	Mechanical Engineering, CoE
Engineering	Ildiko Badea	College of Pharmacy and Nutrition



DG	RTI	Stage	Deadline
х	х	Applicants initiate their intention to apply and/or request for internal review by submitting the Intention to Apply/Request for Internal Review Form.	26th July 2024
х		<b>NSERC Deadline</b> for Submission of DG Notification of Intent (NOI) to Apply. NOI must be submitted to NSERC through the NSERC Research Portal.	1st August 2024
х		Applicants participating in the internal review, please e-mail a copy of your submitted NSERC DG NOI to grant.review@usask.ca .	8th August 2024
х	х	Applicants consult with their mentorship team/s to strategize and prepare their draft application.	12th September 2024
х	х	Applicants submit draft DG and/or RTI application and CCV for internal review to their internal reviewers and copy to grant.review@usask.ca .	13th September 2024
х	х	Internal reviews are returned to the applicants.	7th October 2024
х	х	Applicants consult with their reviewers to incorporate feedback. Research Facilitator reads for the logistical flow and completion of the proposal.	RTI: 7th-13th October 2024 DG: 7th-20th October 2024
х	x	College/Unit Internal Approval  Applicants must submit a full application package including CCV through UnivRS for Department and College academic approval. Applicants comply with college/unit-specific internal approval processes and deadlines.	Please check with your Research Facilitator or Associate/Vice Dean Research/Director
	x	RASI Compliance Review and Approval  Applicants approved by Dept./College must submit the decision in UnivRS at least 5 business days prior to the NSERC submission deadline to provide intuitional approval.	17th October 2024
	х	NSERC RTI Submission Deadline Final applications must be submitted by applicants to NSERC through the NSERC Research Portal.	25th October 2024
х		RASI Compliance Review and Approval  Applicants approved by Dept./College must submit the decision in UnivRS at least 5 business days prior to the NSERC submission deadline to provide intuitional approval.	24th October 2024
х		NSERC DG Submission Deadline Final applications must be submitted by applicants to NSERC through the NSERC Research Portal.	1st November 2024



### **2024 Important Dates**

- Non-negotiable
- Communication is key
- OVPR is here to support you
- Refer to <u>NSERC DG & RTI</u>
   <u>Application Deadlines 2024</u>

   for more detailed guidance





## Research Data Management

Research data management (RDM) refers to the collection, documentation, storage, sharing, and preservation of research data throughout the lifecycle of a research project. Good RDM practices improve research efficiency, support research integrity and replication, and enhance research visibility and impact. These outcomes benefit researchers and their institutions, funders, and the research enterprise in Canada and internationally.

Tri-Agency Research Data Management Policy

<u>USask Research Data Management</u>

<u>USask Research Data Management Strategy & Roadmap</u>

**USask Research Data Management Guide** 

Contact: michaela.lynds@usask.ca (RDM Working Group rep.) or rdm.inquiries@usask.ca



## EG 1504: Chemistry

**Rob Scott** 

Professor Department of Chemistry



#### Some of the issues I noted the past several years that led to poorer outcomes:

- Description of EDI challenges in <u>both</u> your field of research <u>and</u> institution.
   <u>Explicitly</u> state what these challenges are for both and provide several concrete action plans.
- 2. Most Significant Contributions to Research: These should be used to describe your expertise and the impact of your work and need not be publication specific (i.e. they should not be paper abstracts). Be specific about evidence of the impact of your work i.e. your expertise has led to invited talks /publications / grants /awards /collaborations, etc.
- 3. Collaborations: Many people collaborate, but it is incumbent to describe **your role** in all collaborations. If you publish with other co-PIs often, be explicit about what your role is.
- 4. Delays in Research: Quantify your delays. NSERC allows you to attach a supplementary contributions to research document. Only a minority of applicants take advantage of this.



## EG 1506: Geosciences

## **Cherie Westbrook**

Professor
Department of Geography and Planning
Centre for Hydrology



### TIPS TO SCORING HIGH ON A DG APPLICATION

99

The onus is always on the applicant to provide a compelling case

1. Familiarize yourself with the merit indicators

2. Carefully curate your portfolio of publications and leadership roles, selecting those with the greatest individual or collective IMPACT on scholarship, policy, practice, pedagological shifts, etc.

3. Avoid referring to webpages and impact factors

4. Proposed research shouldn't be pedestrian/overly safe [read: boring]. At least one objective should involve a degree of calculated risk that could contribute to groundbreaking advances or lead to a technology or policy (new or substantial revision).

5.ECR's: Recruit multiple trusted colleagues holding DGs to review your proposed research to ensure clear mapping of research challenge --> long-term goal --> short-term goals --> methodology and the feasibility of accomplishing these within 5 years

6. EDI statements: Provide concrete example(s) of what you've done

previously and evidence of it 'working', and present a plan that will meaningfully build or expand an inclusive research training environment.



Cherie Westbrook (EG 1506)



## EG 1508: Math and Statistics

## Raymond Spiteri

Professor and Director of the Centre for High-Performing Computing Department of Computer Science



- Start early!
- Read the instructions; follow the instructions.
- Get feedback.
- "The onus is on the applicant."
  - Clearly explain your role in publications, supervision, collaborations, committees, other funding.
  - Ensure consistency between CCV and application.
  - Don't take EDI lightly.
  - No matter how clear things are in your mind, do not assume reviewers can read it.
  - Write in plain language for the educated non-specialist.
  - Less can be more, but sometimes less is just less.
- Have fun! Have your excitement/enthusiasm come through!



# EG 1511: Materials and Chemical Engineering

Ildiko Badea

Professor College of Pharmacy and Nutrition



### Use Merit Indicators to guide writing as it is used by the reviewers

#### Excellence of the Researcher

• Outline clearly NSE contribution (e.g., nanomaterial development, fundamental processes, use in veterinary therapies)

### Merit of proposal

No specific comments to EG 1511

### **Training of HQP**

- Past training be specific on the achievements of past HQP in NSE
- Training philosophy should be illustrated by examples that match past training
- Challenges related to EDI avoid generic/institutional policy statements; personalize by describing specific actions

Consider all sections equally



# EG 1512: Mechanical Engineering

## **Daniel Chen**

Professor

Department of Mechanical Engineering

Division of Biomedical Engineering



#### Excellence of the researcher

- 1. Ensure to complete and/or update the information **precisely** on all sections of **your CCV**, including "Research Funding History (awarded and completed, and years", "Presentations", "Publications", etc.
- 2. Strategically select the attachments, e.g., those demonstrating the more recent / high-quality / closely-related work and/or preliminary results, with the applicant being the first, corresponding, and/or senior author.

### Merit of the proposal (5-page attached proposal)

Sections: recent progress, objectives, literature review, methods, and impact.

#### To explain: why, what and how.

- 1. Why: Research progress, literature review and research issues to be addressed, and impact
- 2. What: Research (both long- and short-term) objectives
- 3. How: Research methods with **essential details** (typically > 2 pages)

## Contributions to the training of highly qualified personnel

Research training plan: focus on training, not repeat but complement to methods in Proposal.



## Q & A

BE WHAT THE WORLD NEEDS



## Research Tools & Instruments session

## Suresh Tikoo

Professor, School of Public Health
Director, Vaccinology and Immunotherapeutics Program
Associate Member, Department of Veterinary Microbiology (WCVM)



#### 1. NEED, URGENCY AND SUITABILITY (40%)

- A) The equipment is essential for the research and there is no other most cost-effective ways of obtaining the results
- B) Availability of similar equipment / facilities/services in the vicinity; If yes-----justify
- C) Impact of delay in acquisition of equipment on research and pace of research
- D) Degree of utilizations.
- 1. Need, urgency and suitability (40%);
- A) The equipment is essential for the research and there is no other most cost-effective ways of obtaining the results)

```
✓ _important for research, ✓ HQP training ✓ number of users to be benefited (NSERC funded). ✓ Essential for establishing collaborations
```

- B) Availability of similar equipment/facilities/services in the vicinity; If yes----justify
  - <u>Functioning equipment</u> ✓ # of users, ✓ feasibility of moving samples, ✓ limited access to the instrument, ✓ drawback in existing Equip.

  - **②** <u>Upgrade or replace obsolete instrument.</u> ✓ new analysis software, ✓ changed technology
- C) Impact of delay in acquisition of equipment on research and pace of research

```
✓ delay in publication ✓ delay creates problem with existing/ future collaborations; ✓ building competitive research program.

✓ delay in HQP training /completion ✓ force HQP to work irregular hrs (without supervision)
```

D) Degree of utilizations. ✓ as many researchers / HQP as possible (Even non applicant researchers)

#### 2. FEASIBILITY AND IMPACT (40%)

- A) Quality and significance of research programs, potential for <u>major advances and impact</u> in the discipline
- B) Feasibility of the plan to use equipment
- C) Existing experience or training plan for applicants to use the system.
- D) EDI (Team)
- 2. Feasibility and Impact (40%)
- A) Quality and significance of research programs, potential for major advances and impact in the discipline
  - **○** Team:
- ✓ Include ECR; ✓ Avoid member with well funded human health research .
- Simple language
  - ✓\_reviewer may not be from your area)
- - ✓ <u>Immediate impact ---</u> Scientific ; ✓ <u>long run Impact. -</u>--economic potential
- B) Feasibility of the plan to use equipment.
  - √ Supervised (may be by an appointed technician),
    √ separate accessible space;
    - √ Time booking system, 
      √ user fee (future repairs, partial salary etc); 
      √ ordering system
- C) Existing experience or training plan for applicants to use the system.

√( PIs & technician well trained).

- D) EDI 

  ◆ Team / applicants
  - ✓ Gender, ✓ minority, ✓ Indigenous -----(Not considered for allotting marks)



#### 3. TRAINING OF HQP (20%)

- A) Quality & extent of training
- B) Opportunity for hands on training
- C). Potential to provide marketable skills for trained students
- C) EDI

Eligible applications
94
Awarded
29
success rate of
30.9%

A) Quality & extent of training √ HQP Track record B) Opportunity for hands on training: √ Beneficial if industry involved, √ Senior HQP /technician provide training √ Need Training plan C) Potential to provide marketable skills for trained students which help in securing jobs in industry D) EDI √ University resources to build a diverse team √ how you identify & mitigate potential barrier √ Mentorship (involving diverse team in making decision, Involvement in analysing data, problem solving etc) √ Plan to host indigenous students for recruiting, √ MOU /access to indigenous community. √ Representing different countries with diverse ethnicity. √ Male / Female HQP recruitment

#	10%	20	%	3	0%	30	0%	20%		10%
Scor e	1	2	3	4	5	6	7	8	9	10



## Q & A

BE WHAT THE WORLD NEEDS



## **NSERC** Research Facilitators and Support Team

**NSERC Leader: Ron Borowsky** 

Research Development Specialist: Michaela Lynds

College of Agriculture and Bioresources: Danielle Baron

College of Arts and Science: James Dobson

College of Dentistry: Janice Michael

College of Education: Sanjukta Choudhury

Edwards School of Business: Luke Heidebrecht

College of Engineering: Rana Mustafa

College of Kinesiology: Gen Clark

College of Law: Bonnie Hughes

College of Medicine (Department of Biochemistry, Microbiology and Immunology; Department of Anatomy, Physiology, and Pharmacology): Bruna Bonavia-Fisher

Department of Community Health and Epidemiology: Maryam Madani Larijani (on leave); Mark Milne

Department of Medicine: Ozlem Sari Department of Pediatrics: Tova Dybvig

Department of Psychiatry: Mariam Alaverdashvili

Department of Surgery: Karen Mosier

Department of Family Medicine, Medical Imaging, Obstetrics & Gynecology, Oncology, Ophthalmology, Pathology and Laboratory Medicine: Mark Milne

College of Nursing: Robin Thurmeier

College of Pharmacy and Nutrition: Gen Clark

School of Environment and Sustainability: Graham Fairhurst



## Research Support

Arts and Science; Education	Nicole Benning
Edwards School of Business	Laurie Schimpf
Johnson Shoyama School of Public Policy	
Law	
Library	
Centre for Forensic Behavioural Science and Justice	
Studies	
Canadian Centre for the Study of Co-operatives	
Community-University Institute for Social Research	
Agriculture and Bioresources	Brenda Meyer- Burt
Engineering	Gerelt Trost
Global Institute for Food Security	
Global Institute for Water Security	
School of Environment and Sustainability	
Toxicology Centre	
Vaccine & Infectious Disease Organization	
Western College of Veterinary Medicine	
Medicine	Cameron Berg
Pharmacy and Nutrition	Centaine Raginski
Nursing	
Dentistry	
Kinesiology	
School of Public Health	
Saskatchewan Population Health and Evaluation	
Research Unit	
Constitution Control for Health and Confet St. Andr. 16 and	
Canadian Centre for Health and Safety in Agriculture	
Indigenous Peoples' Health Research Centre	
1	Leila Tang
Indigenous Peoples' Health Research Centre	Leila Tang Lisa Belhumeur
Indigenous Peoples' Health Research Centre International Office	
Indigenous Peoples' Health Research Centre International Office	Lisa Belhumeur

## **Research Security**

<u>USask - Safeguarding Your Research</u>

**Tri-Agency Guidance on Research Security** 

**Research Security Resources** 

Information webinars by Tri-Agency

Webinars in English:

- •Thursday, May 9: 1 2:30 pm EDT Register
- •Tuesday, May 28: 11 am 12:30 pm EDT <u>Register</u>

#### Webinars in French:

- •Monday, May 6: 11 am 12:30 pm EDT <u>Register</u>
- •Thursday, May 30: 1 2:30 pm EDT Register



#### **Useful Resources**

<u>USask Tri-Agency Research Support – OVPR</u> <u>Grants Repository</u>

Instructions for completing the NOI to apply for a Discovery grant

Instructions for completing a Discovery grant application

Discovery grant - Peer review manual

Instructions for completing a RTI grant application

Research Tools and Instruments grant - Peer review manual

**Resource Videos** 

Guide on integrating EDI considerations in research

**HQP - Frequently Asked Questions** 

How to complete NSERC's version of the CCV

