

GOVERNMENT PARTNERSHIP GLOBAL PERSPECTIVES

A UIDP WEBINAR SERIES





January 28, 2021 | The webinar will begin momentarily





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APRIL 12-16



- Diverse, comprehensive agenda
- Serendipity networking
- Topics curated for YOU

Learn more at https://bit.ly/UIDPVirtual2021

Keynotes



Sethuraman Panchanathan NSF Director



Abigail Stevenson Vice President, Mars Advanced Research Institute



Vivek Wadhwa Author, Academic, Entrepreneur



Holden Thorp Editor-in-Chief, Science

...and incredible U-I presenters, including



Nerissa Draeger Lam Research



Sean Evans
Johnson & Johnson



Wendy Yajnik Novartis



Strengthening University-Industry Partnerships







Natural Sciences and Engineering Research Council of Canada

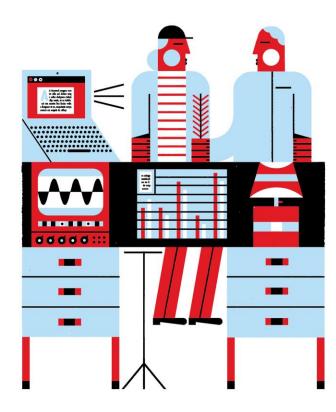
Insights & approaches to enhance research collaboration

Prof. Alejandro Adem, President, NSERC

January 2021

Table of contents

- 1. **NSERC's Role** in Canada's Funding Landscape
- 2. Alliance Grants, NSERC's New Partnerships Program
- NSERC's National and International Partnerships, leveraging expertise

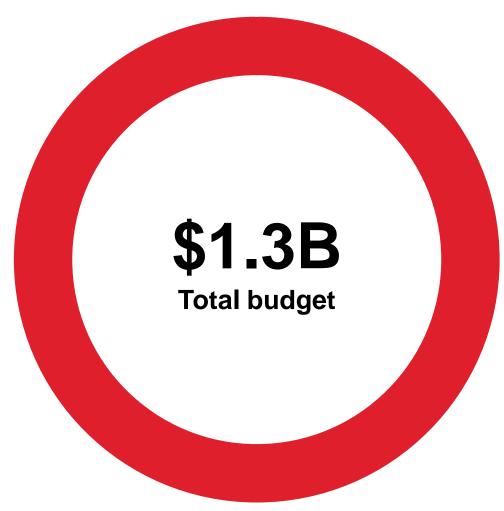


NSERC's role in Canada's innovation

ecosystem

 NSERC funds post-secondary research and training in the natural sciences and engineering

- Supports 76 universities and 110 colleges & polytechnics
- 12,400 professors
- 3,800 industry partnerships
- 37,700 students and fellows



NSERC's budget breakdown

\$727M

Discovery Research

\$393M

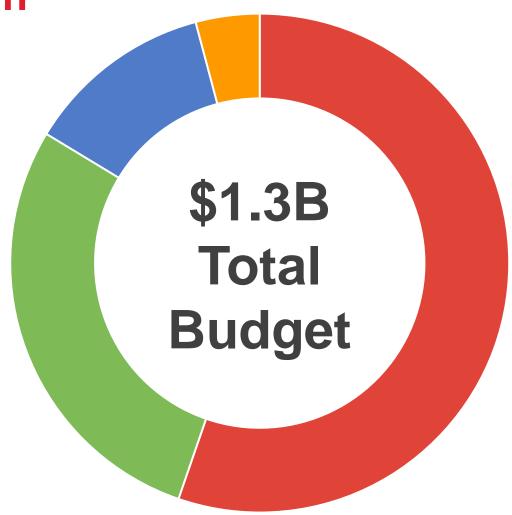
Research Partnerships

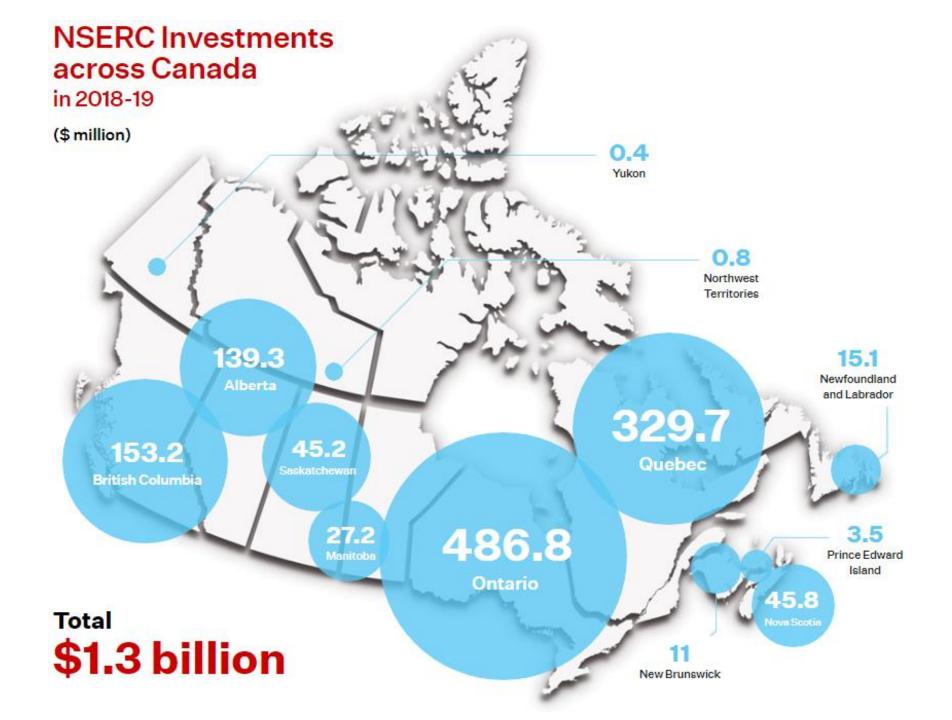
\$155M

Research Talent and Training

\$55M

Administrative





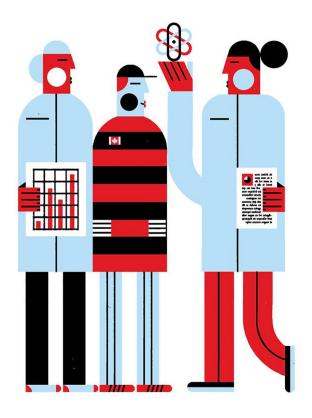
Celebrating our Top Researcher



Remarkable discoveries that put the next generation of medical treatments within our grasp.

PLAY VIDEO

Alliance partnerships program



Alliance Grants

Program objectives

SUPPORT research in the natural sciences and engineering (NSE) led by strong, complementary, collaborative teams.

ENABLE collaborations with a broader set of partner organizations (private, public, not-for-profit sectors)

CREATE economic, social and/or environmental benefits

REMOVE barriers and provide more flexibility in building partnerships that will effectively generate new knowledge and accelerate the application of research results for the benefit of Canadians.

TRAIN new researchers in areas that are important to Canada and to the partner

Alliance Grants

Key notes

- FLEXIBLE from \$20K to \$1M, per year, Duration: 1-5 years
- NO DEADLINE apply at any time
- STREAMLINED review process
- INTERNATIONAL collaborations can be incorporated at the proposal stage
- INTERDISCIPLINARY 30% of grants can be spent on disciplines outside the natural sciences and engineering

1 funding opportunity

2 options

Both options have the same:

- Objectives
- Evaluation criteria
- Peer review process for overall merit assessment
- Academic community and types of partner organizations served
- Requirements for the recognition of partner organizations

Alliance option 1

Grant size

\$20K to \$1M per year

The limits of the funding range are not yearly averages.

Cost-sharing

50% to 66.7% from NSERC

Determined by type of partnership and global size of the partner organization(s) recognized for cost-sharing.

Alliance option 2

Funding

Up to 90 to 100 % from NSERC

if the characteristics are met and depending on the type of partner organizations

Cost-sharing

at least 1 partner organization

must have contributions recognized for cost-sharing, even if NSERC is providing 100% of the funding

Alliance option 2

societal impact making connections broad outcomes

The proposal must meet specific characteristics to qualify for option 2

Alliance Grants

National University-Industry Partnerships

- I-POCUS: An Intelligent Point-of-Care Ultrasound System for Neonatal Intensive Care Units in Canada's Hospitals. Ryerson University with Dapasoft Inc.
- Sustainable Indoor Intelligent Aquaponics Farming based on Industry 4.0. University of Alberta with NutraPonics Canada Corporation.
- Lighting that is Easier on the Eyes and the Environment Memorial University of Newfoundland and Lumentra Inc.

Alliance Partnerships with Government Organizations

Platforms for 'Societal Co-leadership' and 'Public Impact'

2018 - Whale Science For the Future.

NSERC and Fisheries and **Oceans Canada**

Oceans Protection Plan

2019 - Advancing Climate Change Science in Canada. a cleaner future.

NSERC with Environment and Climate Change Canada and Health Canada

Pan-Canadian Framework on Clean Growth and Climate Change

2020 - Plastics science for

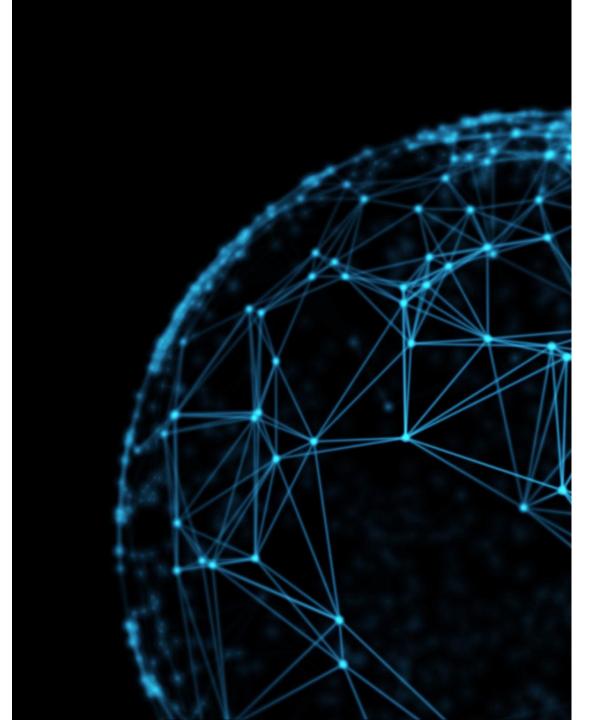
NSERC with Environment and Climate Change Canada

Canada's Plastics Science Agenda (CaPSA)

Alliance Grants

Powering international partnerships

- The Alliance program enables university researchers to collaborate with international private-sector, public-sector or not-for-profit organizations.
- NSERC fosters an open and connected research environment to facilitate international partnerships.



Alliance partnerships program

Powering international partnerships

- In 2020, NSERC and Innovate UK (UKRI) partnered to launch a call for proposals on quantum technologies
- December 2020, NSERC announced a partnership with the German Federal Ministry of Education and Research to fund collaborative research projects on hydrogen and fuel cell technologies



Alliance grants: International

Joint Canada-UK projects on Quantum Technologies

- 8 grants awarded to share £2M from the UK and C\$4.4M total investments from Canada to foster research collaborations between academia, industry and government partners
- Collaborative project to fund quantum technologies in the fields of secure communications, sensing and imaging, and computing and simulation

University of Waterloo & Bristol University

University of Waterloo & University College London

Université Sherbrooke & Oxford Instruments

University of Waterloo & Bristol University

University of Saskatchewan & Nottingham University

McGill University & University College London

Institut national de la recherche scientifique & Heriot-Watt University

Institut national de la recherche scientifique (INRS) & University of Sussex

Alliance Grants: International

International Universities and Industry Partnerships

1. Reference-Frame Independent Quantum Communication for Satellite-Based Networks

UK: Craft Prospect Ltd., University of Bristol, University of Strathclyde

CANADA: University of Calgary and Waterloo, COM DEV International Ltd, Canadian Space Agency, Ontario Research Fund Excellence 2. Advanced Manufacturing Toolkit for Quantum Sensing and Quantum Computing

UK: Oxford Instruments, Nanotechnology Tools Limited, University of Glasgow

CANADA: Université de Sherbrooke, Oxford Instruments, SBQuantum Inc., PROMPT, Nord Quantique, 3. Making noisy quantum processors practical: from theory to applications

UK: Phasecraft Limited, Univ. of London – Univ. College London

CANADA: University of Waterloo, Perimeter Inst for Theoretical Physics, Quantum Benchmark Inc.

NSERC Synergy Awards for Innovation

Celebrating partnerships between universities, colleges and industry

- R&D in the natural sciences and engineering
- Recognition of tangible benefits
- Universities receive \$200,000 grant
- Industrial partners \$30,000 valid for Alliance grant cash contribution







Synergy Award for Innovation

Category: Two or More Companies University of Calgary and University of Alberta Microseismic Industry Consortium

Datasets and algorithm modelling for extraction industries and environmental protection

Synergy Award for Innovation

Category: Small and Medium-Sized Companies
Ryerson University
Warranty Life

Synergy Award for Innovation Category: Two or More Companies

McMaster University
FCA Canada Inc.

Social analytics and AI to optimize consumer warranties

Innovation for electric and hybrid vehicles

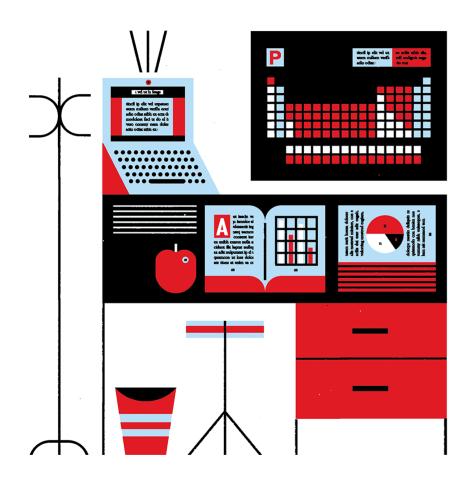
Our research partnerships toolkit

Ω	Find NSERC-funded experts	cognit.ca
	& research partners	 NSERC Awards Database
\$	NSERC's investments & partnerships	 NSERC funding Dashboard

1700

Partnership opportunities

Alliance



Questions?

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UIDP Webinar Running to Stand Still: Legislative Realities for the New Administration and 117th Congress February 10, 2021 12–1 p.m. EST



Leslee Gilbert Van Scoyoc Associates



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