

NSERC 2020: A Strategic Plan

Northeastern Association of Graduate Schools

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April 2016



Natural Sciences and Engineering
Research Council of Canada

Conseil de recherches en sciences
naturelles et en génie du Canada

Canada

NSERC at a Glance

■ NSERC Vision:

- to make Canada a country of discoverers & innovators for the benefit of all Canadians

■ NSERC Mission:

- be the focal point for discovery & innovation in the natural sciences and engineering for Canada

■ NSERC Goals:

- Advancing knowledge, seizing opportunities
- Building prosperity through research
- Inspiring the next generation
- Showing the value of R&D investments
- Increasing visibility of research

NSERC 2020

Where will NSERC be in 2020?

NSERC 2020 outlines five clear goals that NSERC will pursue to position Canada for the future:

- Fostering a science culture
- Launching the new generation
- Building a diversified and competitive research base
- Strengthening the dynamic between discovery and innovation
- Going global

http://www.nserc-crsng.gc.ca/NSERC-CRSNG/NSERC2020-CRSNG2020/index_eng.asp

Fostering a Science Culture

- Goal
 - Make science and engineering mainstream
 - Increase interest, awareness and appreciation of science
- Strategy
 - Take a national leadership role and expand science promotion and outreach efforts in Canada
- Outcome
 - The creation of a robust culture in Canada, that values science and engineering

Launching the New Generation

- Goal
 - Enable early-career researchers to launch independent research careers
- Strategy
 - Review NSERC's programs with a view to providing more dedicated support to early-career researchers
- Outcome
 - Increased opportunities for early-career researchers to advance their careers and gain employment in research-intensive jobs

Building a Diversified and Competitive Research Base

- Goals
 - Stimulate breakthrough research and research excellence
 - Build, mobilize and connect expertise across populations, institutions, disciplines, regions, and sectors
- Strategy
 - Provide the support and flexibility to pursue high-quality research that will promote diversity and interdisciplinarity
- Outcome
 - A world-class, diverse, and interdisciplinary research enterprise

Strengthening the Dynamic between Discovery and Innovation

- Goal
 - Transform the dynamic between discovery and innovation and deepen the interactions between sectors
- Strategy
 - Build on current mechanisms and convene strategic partners
- Outcome
 - Researchers can work simultaneously in both discovery and innovation with ease

Going Global

- Goal
 - Secure Canada's access to global knowledge and expertise
- Strategy
 - Contribute/gain access to world-class knowledge & expertise
- Outcome
 - Recognition of Canada's research contributions to the world
 - Increased participation in strategic international research networks
 - Increased foreign investments in Canada's companies

Indicators of Success

- Increased awareness of science in the general population
- Increased participation in underrepresented groups
- Decreased average age to obtain a discovery grant or research position in academia or industry
- Increased impact of Canadian research
- Increased number of academics involved in industry collaboration
- Increased R&D investments by companies partnering with academics
- Increased number of professors and HQP with international experience
- Increased number of programs/awards with international deliverables
- Increased number of MOUs with other international funding agencies.

International Opportunities

- Vanier Canada Graduate Scholarships (Vanier CGS) program
- Canada Graduate Scholarships - Michael Smith Foreign Study Supplements (CGS-MSFSS) program
- Banting Postdoctoral Fellowships (Banting PDF) program
- Collaborative Research and Training Experience (CREATE) program

Vanier CGS program

www.vanier.gc.ca

Value and duration	\$50,000 per year for three years
Open to:	<ul style="list-style-type: none">• Canadian citizens• Permanent residents of Canada• Foreign citizens
How to apply:	You must be nominated by a Canadian Institution with a quota; Institutional nomination to NSERC in November 2016
Selection criteria (equally weighted):	<ul style="list-style-type: none">- Academic Excellence- Research Potential- Leadership (potential and demonstrated ability)
Other program details:	<ul style="list-style-type: none">- Tri-agency program (CIHR, NSERC & SSHRC)- Award must be held at the nominating institution

* Contact your Office of Graduate Studies for the university-specific deadline

CGS-MSFSS program

Value and duration:	Up to \$6,000 (covers travel, living, and other non-research related costs) for a 3 to 6 month research study period abroad.
Open to:	Canadian citizens and permanent residents of Canada holding an active CGS or Vanier CGS.
Deadline dates:	June 10 and October 10
How to apply:	Applications must be submitted through the University, within their assigned allocation.
Where can you travel?	eligible foreign universities or research institutions. <i>*The choice of location for your research study period abroad, and how it will further your research goals, must be justified in your application.</i>
Other program details:	- Tri-agency program (CIHR, NSERC & SSHRC).

* Contact your Office of Graduate Studies for the university-specific deadline

Banting PDF program

<http://banting.fellowships-bourses.gc.ca/en/home-accueil.html>

Value	\$70,000 per year for two years
When and how to apply?	By 8:00 p.m. (ET) on September 21, 2016. Applications submitted through ResearchNet
Open to:	<ul style="list-style-type: none">• Canadian citizens• Permanent residents of Canada• Foreign citizens
Where can you hold the award?	<ul style="list-style-type: none">• Canadian universities• Foreign universities (capped at 25% overall)• Affiliated research hospitals, colleges and not-for-profit organizations with a strong research mandate and capacity
Selection Criteria (weighted equally)	<ul style="list-style-type: none">• Research excellence and leadership in the research domain• Quality of applicant's proposed research program• Institutional commitment and demonstrated synergy between applicant and institutional strategic priorities

Collaborative Research and Training Experience (CREATE) Program

Value & duration	Up to \$150,000 in the first year and up to \$300,000 for up to five subsequent years, for a maximum of \$1.65M over 6 years.
Location of tenure	tenable only at NSERC eligible Canadian universities.
Funding	<ul style="list-style-type: none">- At least 80% of the CREATE grant must be used for trainees' stipends.- Up to 20 % of the CREATE grant may be used for training program structure, travel, dissemination of training materials and research results.
Deadline dates	May 1 - Letter of Intent September 22 – Application deadline (if invited)

Questions?

