



Guide to Canadian science,
technology & innovation programs

GUIDE FOR EUROPEANS



ERA-Can+



AIM OF THE GUIDE

This guide is intended to help European researchers and innovators identify and access opportunities for collaboration with their Canadian colleagues. The guide offers an overview of Canada's science, technology and innovation system and profiles Canadian science, technology and innovation programs that may be of interest to Europeans. Each program profile provides a brief description of the program and of the eligibility criteria for Europeans, as well as contact information for the program owner.

STRUCTURE OF THE GUIDE

Chapter 1: Canada's science, technology and innovation system provides an overview of the structure of Canada's science, technology and innovation system and profiles major research and innovation actors in Canada. This chapter outlines the policy context in which research and innovation occur in Canada and describes the roles that federal and provincial governments play in funding and performing research.

Chapter 2: Canadian science, technology and innovation programs – Funding available to Europeans [Canadian programs with funding available to Europeans] profiles Canadian science, technology and innovation programs through which Europeans can obtain funding. This chapter includes federal and provincial programs.

Chapter 3: Canadian science, technology and innovation programs – Partnership opportunities available to Europeans [Canadian programs to which Europeans bring their own funding] profiles Canadian science, technology and innovation programs that are open to European participation but do not explicitly offer funds to European participants. These programs allow Europeans to collaborate with their Canadian colleagues, but require Europeans to bring their own funding. This chapter presents federal and provincial programs.

Chapter 4: Other Canadian program owners that may be of interest profiles other Canadian science, technology and innovation program owners that may be of interest to Europeans.

ERA-CAN+ PROJECT

The Guide to Canadian science, technology and innovation programs is a product of the ERA-Can+ project. This project has been established to help Canadians access Horizon 2020 funding, a multi-year (2014-2020) program for science and technology funded by the European Commission. Building on several years of successful collaboration, ERA-Can Plus will foster and support enhanced collaborations between Canadian and European researchers and innovators in the academic and private sectors. The ERA-Can+ consortium is led by the Agenzia per la Promozione della Ricerca Europea (APRE) in Italy. The other European partners are the Zentrum für Soziale Innovation (ZSI) in Austria, the Centre National de Recherche Scientifique (CNRS) in France and Der Projektträger im Deutschen Zentrum für Luft- und Raumfahrt in Germany (DLR). The Canadian partners are the Association of Universities and Colleges of Canada (AUCC), Foreign Affairs, Trade and Development Canada (DFATD) and the Public Policy Forum (PPF). Additional information about ERA-Can+ and project activities can be found at www.era-can.net.

CHAPTER I

Canada's science, technology and innovation system

Structure of the Canadian innovation system

Canada is a federation of ten provinces and three territories and the Canadian constitution specifies that provincial governments have exclusive responsibility for all levels of education, natural resources, and health. The federal government has responsibility for defence, foreign policy, communications, and citizenship.

In Canada, federal and provincial governments are jointly responsible for the framework conditions that support science, technology and innovation such as fiscal and tax systems, intellectual property rights, labour mobility, policies shaping competition, and foreign investment and trade. At the federal level, the Minister of Industry and the Minister of State for Science and Technology are regarded as having the lead responsibility for innovation in Canada, while the Minister of International Trade has the responsibility to support international innovation, science and technology.

Provinces are responsible for universities, colleges and hospitals within their jurisdiction and provide most of the basic operating costs, including staff salaries, that support Research and Development (R&D) carried out within these institutions.

Policy context in Canada

The most recent federal science and technology policy document, *Mobilizing Science and Technology to Canada's Advantage*, was released in 2007 and provides a framework to guide Canada's S&T policy. It focuses on creating an "entrepreneurial advantage", a "people advantage" and a "knowledge advantage" for Canada by promoting world-class excellence, partnerships and accountability for R&D investments. The strategy centres both on increasing private sector R&D and on ensuring that Canada benefits from an internationally competitive university research environment. Four broad strategic R&D priorities were also outlined and these include: environmental science and technologies; natural resources and energy; health and related life sciences and technologies; and information and communication technologies.

To provide further focus, in 2008, the Science, Technology and Innovation Council identified 13 sub-priority areas for R&D, which were endorsed by the Government of Canada. These include:

Environmental science:

- + Water (health, energy, security)
- + Cleaner methods of extracting, processing and utilizing hydrocarbon fuels, including reduced consumption of these fuels



Natural resources and energy

- + Energy production in the oil sands
- + Arctic (resource production, climate change adaptation, monitoring)
- + Biofuels, fuel cells and nuclear energy

Health and life sciences

- + Regenerative medicine
- + Neuroscience
- + Health in an aging population
- + Biomedical engineering and medical technologies

Information and communications technologies

- + New media, animation and games
- + Wireless networks and services
- + Broadband networks
- + Telecom equipment

More recently, in the October 2013 Speech from the Throne, the Government of Canada stated its intention to release an updated ST&I Strategy, which is anticipated to reflect the need to maintain and build on Canada's R&D strengths while identifying opportunities for enhanced commercialization activities. In November 2013, the Government of Canada launched a new international trade plan entitled "Global Markets Action Plan," which can enhance the reach of the Federal ST&I Strategy by promoting Canadian business innovation and global competitiveness.

Research investments

Overall direct research expenditures in Canada were estimated to be worth \$30.4 billion in 2013, which equals just under 2 percent of GDP. The three largest investors in Canadian R&D are the private sector, the federal government and universities. The domestic private sector currently accounts for 47 percent of all R&D expenditures in Canada. As the next largest funder, the federal government contributes almost 20 percent of national R&D funding.

These direct federal investments are dispersed primarily between intramural research performed by federal government departments and agencies, including the National Research Council, and extramural R&D performed by the higher education sector.

These extramural R&D activities originate from several agencies, including:

- + The Natural Sciences and Engineering Research Council of Canada (NSERC), which is the federal funding agency for academic research in the fields of natural sciences and engineering. The agency supports university students in their advanced studies, promotes and supports discovery research and fosters innovation by encouraging Canadian companies to participate and invest in postsecondary research projects.
- + The Social Sciences and Humanities Research Council of Canada (SSHRC),



which is the federal research funding agency that promotes and supports postsecondary-based research and training in the humanities and social sciences. By focusing on developing talent, generating insights and forging connections across campuses and communities, SSHRC strategically supports world-leading initiatives that reflect a commitment to ensuring a better future for Canada and the world.

- + The Canadian Institutes of Health Research (CIHR), which is Canada's federal funding agency for health research. Its mission is to create new scientific knowledge and to enable its translation into improved health, more effective health services and products and a strengthened Canadian health care system. Composed of 13 institutes, CIHR provides leadership and support to more than 13,000 health researchers and trainees in universities, teaching hospitals, and research institutions across Canada.
- + The Canada Foundation for Innovation (CFI), which makes investments in state-of-the-art facilities and equipment, universities, colleges, research hospitals and non-profit research institutions that are attracting and retaining the world's top talent, training the next generation of researchers, supporting private-sector innovation and creating high-quality jobs that strengthen Canada's position in today's knowledge economy.

Collectively, the three research granting councils, namely NSERC, SSHRC and CIHR, are referred to as the Tri-Council. Some programming is offered by the Tri-Council Agencies in consortium (see Chapter 2).

A smaller portion of direct federal funding goes to other sectors including the business and non-profit sectors. The federal government also provides indirect support for research activities performed by the private sector through the Scientific Research and Experimental Development (SR&ED) tax credit program.

The university sector, the third largest investor in Canadian R&D, accounts for about 17 percent of the country's R&D funding. Foreign investors, provincial governments and the not-for-profit sector collectively invest the remaining 15 percent of R&D expenditures in Canada.

Performers of research

Research activities in Canada are carried out primarily by the private sector, higher education institutions, namely universities and colleges, and the federal government. In 2013, the private sector was responsible for 51 percent of all research activities performed in the country while higher education institutions performed 39 percent and the federal government performed 8 percent. The provincial governments and the not-for-profit sector conduct a relatively smaller proportion of Canadian R&D.



Universities in Canada perform a larger share of R&D activities than the OECD average [18 percent]. This distinctive feature of the Canadian research ecosystem means that universities play a critical role in Canada's innovation system, much more so than in industrialized comparator countries. These research investments have created an ecosystem where universities are well-positioned to serve as cross-sectoral platforms for regional, national and international R&D activities.

These R&D activities build on a foundation of infrastructure and programmatic support that enables Canada to stimulate internationally competitive, leading-edge fundamental and applied research in areas critical to Canada's social and economic development.

Universities and research hospitals in 80 municipalities across Canada host more than 8,500 infrastructure projects funded by the Canada Foundation for Innovation. Universities are also home to 18 networks under the Networks of Centres of Excellence program, which brings together more than 2,000 public and private sector organizations in Canada and abroad in leading-edge thematic research networks. The Canada Research Chairs and the Canada Excellence Research Chairs Program have helped attract and retain the world's best researchers while the Indirect Costs program assists universities and their affiliated research hospitals to maintain a world-class research environment. Universities also provide incubation space and services to business and not-for-profit R&D partners in the pre-competitive and competitive stages of knowledge mobilization and commercialization through technology transfer and industrial liaison offices, community research offices. Across the country, 25 research parks are located on or near university campuses.

Canada-EU cooperation in science, technology and innovation

Canada and the European Union have a strong history of cooperation in the fields of science, technology and innovation. In 1996, the Agreement for Scientific and Technological Collaboration between Canada and the European Community was signed. This agreement aims to "encourage and facilitate cooperation between the Community and Canada in fields of common interest where the Parties are supporting research and development activities to advance science and/or technology relevant to those fields of interest."

The 1996 agreement established the Canada-EU Joint Science and Technology Consultative Committee (JSTCC) which meets every 12 to 18 months. The JSTCC outlines priorities for cooperation in science and technology, reports on existing collaborations and offers suggestions to increase collaboration in priority areas. Current priorities, as defined at the most recent JSTCC meeting in March 2013, are health, agriculture and agri-food, information and communications technologies, arctic, marine, aerospace and researcher training and mobility.



CHAPTER 2 Canadian programs with funding available to Europeans

Federal

Tri-Council Program – Canada Excellence Research Chairs

Program Type: Research

Thematic Areas:

- + Environmental science and technologies;
- + Information and communication technologies (digital economy);
- + Health and related life sciences and technologies; and
- + Natural resources and energy

Funding Opportunity Description: The Canada Excellence Research Chairs (CERC) Program awards world-class researchers up to CAD \$10 million over seven years to establish ambitious research programs at Canadian universities.

Eligibility Criteria for Europeans: Open to applications from the world's top researchers who wish to develop ambitious research programs at Canadian universities.

Website: <http://www.cerc.gc.ca/home-accueil-eng.aspx>

Contact: information@cerc.gc.ca

Tri-Council Program – Canada Research Chairs

Program Type: Research

Funding Opportunity Description: The Canada Research Chairs (CRC) Program invests CAD \$300 million per year to attract and retain some of the world's most accomplished and promising minds. Chairholders aim to achieve research excellence in engineering and the natural sciences, health sciences, humanities, and social sciences.

Eligibility Criteria for Europeans: Open to full professors and associate professors (Tier 1), and associate professors and assistant professors (Tier 2) of any nationality. Foreign researchers are eligible to be nominated by potential host institutions in Canada and can be nominated at any time during the year.

Website: <http://www.chairs-chaires.gc.ca/home-accueil-eng.aspx>

Contact: information@chairs-chaires.gc.ca

Tri-Council Program – Banting Postdoctoral Fellowships

Program Type: Capacity building

Thematic Area: Open to all disciplines

Funding Opportunity Description: The Banting Postdoctoral Fellowships, valued at CAD \$70,000 per year (taxable) for two years, aim to attract and retain top-tier postdoctoral talent, both nationally and internationally, to develop their leadership potential and to position them for success as research leaders of tomorrow, positively contributing



CHAPTER 2

to Canada's economic, social and research-based growth through a research-intensive career.

Eligibility Criteria for Europeans: European citizens are eligible to apply. Applicants who are not Canadian citizens or permanent residents of Canada may only hold their Banting Postdoctoral Fellowship at a Canadian institution.

Website: banting.fellowships-bourses.gc.ca/home-accueil-eng.html

Contact: banting@researchnet-recherchenet.ca

Tri-Council Program – Vanier Canada Graduate Scholarships

Program Type: Capacity building

Thematic Area: Open to all disciplines

Funding Opportunity Description: The Vanier Canada Graduate Scholarships (CGS), valued at CAD \$50,000 per year, for up to three years, aim to attract and retain world-class doctoral students by supporting students who demonstrate both leadership skills and a high standard of scholarly achievement.

Eligibility Criteria for Europeans: European citizens are eligible to apply. Applicants must be nominated by a Canadian university.

Website: www.vanier.gc.ca/eng/home-accueil.aspx

Contact: vanier@cihr-irsc.gc.ca

NSERC – Industrial Postgraduate Scholarships Program (IPS)

Program Type: Training

Funding Opportunity Description: Industrial Postgraduate Scholarships provide financial support for highly qualified science and engineering graduates. This support allows them to gain research experience in industry while undertaking advanced studies in Canada.

Eligibility Criteria for Europeans: Qualified foreign candidates are eligible to apply, although NSERC may choose to limit the number of foreign students participating in the program from time to time.

Website: http://www.nserc-crsng.gc.ca/Students-Etudiants/PG-CS/IPS-BESII_eng.asp

Contact: schol@nserc-crsng.gc.ca

SSHRC – Insight Development Grants

Program Type: Research

Thematic Area: Open to all disciplines in the social sciences and humanities

Funding Opportunity Description: Insight Development Grants support research in its initial stages. The grants enable the development of new research questions, as well as experimentation with new methods, theoretical approaches and/or ideas. Funding is provided for short-term research development projects, of up to two years, proposed by individuals or teams. Proposals are to respond to the following objectives:

- + build knowledge and understanding from disciplinary, interdisciplinary and/or cross-sector perspectives through support for the best researchers;
- + support new approaches to research on complex and important topics, including those that transcend the capacity of any one scholar, institution or



CHAPTER 2

discipline;

- + provide a high-quality research training experience for students;
- + fund research expertise that relates to societal challenges and opportunities; and
- + mobilize research knowledge, to and from academic and non-academic audiences, with the potential to lead to intellectual, cultural, social and economic influence, benefit and impact.

Eligibility Criteria for Europeans: European researchers whose primary affiliation is with a non-Canadian postsecondary institution are eligible to participate as co-applicants; the rationale for international collaboration must be clearly outlined in the application.

Website: http://www.sshrc-crsh.gc.ca/funding-financement/programmes-programmes/insight_development_grants-subventions_de_developpement_savoir-eng.aspx#3

Contact: insightdevelopment@sshrc-crsh.gc.ca

SSHRC – Partnership Grants

Program Type: Research/Innovation/Capacity building/Knowledge mobilization

Thematic Area: Open to all disciplines in the social sciences and humanities

Funding Opportunity Description: Partnership Grants provide support for new and existing formal partnerships over four to seven years to advance research, research training and/or knowledge mobilization in the social sciences and humanities through mutual cooperation and sharing of intellectual leadership, as well as through resources as evidenced by cash and/or in-kind contributions. A formal partnership is a bilateral or multilateral formal collaboration agreement between an applicant and one or more partners, of which at least one must be a Canadian postsecondary institution and at least one must be different from the institution or organization that will administer the grant funds. Partnerships may be between academic institutions, or between one or more academic institutions and one or more non-academic partners. These partners agree and commit to work collaboratively to achieve shared goals for mutual benefit.

Eligibility Criteria for Europeans: International postsecondary institutions may participate as co-applicants. Co-applicants from European post-secondary institutions can access SSHRC funding in two ways: a) through a reimbursement of expenses related to research activity b) through a sub-agreement entered into by the Canadian post-secondary institution and the European institution to transfer funds to the European institution.

Website: www.sshrc-crsh.gc.ca/funding-financement/programmes-programmes/partnership_grants_loi-subventions_partenariat_li-eng.aspx#3

Contact: partnershipgrants@sshrc-crsh.gc.ca

SSHRC – Partnership Development Grants

Program Type: Research/Innovation/Knowledge mobilization

Thematic Area: Open to all disciplines in the social sciences and humanities

Funding Opportunity Description: Partnership Development Grants provide support over one to three years to develop research and related activities in the social sciences



and humanities, including knowledge mobilization and the meaningful involvement of students and new scholars, by fostering new partnerships for research and related activities involving existing and/or potential partners or to design and test new partnership approaches for research and/or related activities that may result in best practices or models that can either be adapted by others or that have the potential to be scaled up to a regional, national or international level.

Eligibility Criteria for Europeans: International postsecondary institutions may participate as co-applicants. Co-applicants from European post-secondary institutions can access SSHRC funding in two ways: a) through a reimbursement of expenses related to research activity b) through a sub-agreement entered into by the Canadian post-secondary institution and the European institution to transfer funds to the European institution.

Website: www.sshrc-crsh.gc.ca/funding-financement/programmes-programmes/partnership_development_grants-subventions_partenariat_developpement-eng.aspx#3
Contact: partnershipgrants@sshrc-crsh.gc.ca

SSHRC - Connection Grants

Program Type: Knowledge mobilization

Thematic Area: Open to all disciplines in the social sciences and humanities

Funding Opportunity Description: Connection Grants support events and outreach activities geared toward short-term, targeted knowledge mobilization initiatives. These events and activities represent opportunities to exchange knowledge and to engage on research issues of value to those participating. Events and outreach activities funded by a Connection Grant may often serve as a first step toward more comprehensive and longer-term projects potentially eligible for funding through other SSHRC funding opportunities.

Eligibility Criteria for Europeans: International postsecondary institutions may participate as co-applicants. Co-applicants from European post-secondary institutions can access SSHRC funding in two ways: a) through a reimbursement of expenses related to research activity b) through a sub-agreement entered into by the Canadian post-secondary institution and the European institution to transfer funds to the European institution.

Website: www.sshrc-crsh.gc.ca/funding-financement/programmes-programmes/connection_grants-subventions_connexion-eng.aspx#3
Contact: connection@sshrc-crsh.gc.ca

CIHR - International Collaboration

The Canadian Institutes of Health Research (CIHR) encourages, when appropriate, Canadian researchers to engage in international research projects and/or international collaborations by providing funds to support research to be carried out in, and/or in direct collaboration with researchers and/or knowledge-users based in other countries.

CIHR encourages applications in the field of global health, which demonstrate that the proposed research project has the potential to improve the health of the global community. CIHR contributes to, and supports international research projects and international collaborations to address a range of research areas, including but **not** limited to



established priorities in global health research and contributes to the development of health-research capacity both internationally and domestically.

Foreign researchers may apply as Principal Applicants, Co-Applicants or Collaborators if they meet the relevant definitions in CIHR Grants and Awards Guide (<http://www.cihr-irsc.gc.ca/e/805.html>), as well as the specific eligibility criteria outlined in the Funding Opportunity. They are not required to have an employment relationship or academic status with a CIHR-eligible Institution.

Often Foreign Researchers do not meet Nominated Principal Applicant requirements which are – among others:

- + spend a minimum of six months per year at a Canadian institution
- + have an employment relationship or academic status with a CIHR-eligible Institution

The CIHR Nominated Principal Applicant may transfer funds to team members (i.e., researchers, trainees, knowledge-users, etc.) based outside of Canada subject to approval from the Canadian Institution Paid. The Primary Institution has principal responsibility for the use and monitoring of funds that are transferred to a Non-eligible Secondary Institution.

Candidates who submit their research applications to CIHR's competitions undergo a highly competitive process where the applications are reviewed through CIHR's Peer Review evaluation processes prior to being approved.

For an overview of how to apply for CIHR funding, please refer to the following link: <http://www.cihr-irsc.gc.ca/e/795.html>

To access CIHR's funding opportunities, please refer to the CIHR Funding Opportunities Database (<https://www.researchnetrecherchenet.ca/rnr16/srch.do?all=1&search=true&org=CIHR&sort=program&masterList=true&view=currentOpps&fodAgency=CIHR&fodLanguage=E>) on ResearchNet.

Provincial

Program Owner - Fonds de recherche du Québec

In their respective fields, the Fonds de recherche du Québec – Nature et technologies (Nature and Technology), the Fonds de recherche du Québec – Santé (Health), and the Fonds de recherche du Québec – Société et culture (Society and Culture) have the following mandate:

- To ensure the strategic and coherent development of research in Québec;
- To provide financial support for research and for the training of researchers;
- To create any partnerships necessary for fulfilling their mission;
- To promote and provide financial support for knowledge mobilization.

Fonds de recherche du Québec – Health – Postdoctoral Training for Applicants Living Outside of Québec

Program Type: Training

Thematic Area: Health

Program Description: This postdoctoral training program is aimed at citizens of other countries and Canadian citizens (applicants from other Canadian provinces and permanent residents of Canada) who are not domiciled in Québec and who wish to pursue their postdoctoral training in the province. The purpose of this program is to help doctorate (Ph.D.) holders enhance their training and broaden their field of interest. It is also aimed at encouraging these researchers to experience new scientific environments, to acquire new research methodologies and management and communication skills, and to supervise students. The Fonds de recherche du Québec assumes that the internship director will mentor applicants in developing their university career.

Eligibility requirements:

- + Applicants with a doctoral degree (Ph.D.)
- + Applicants must have obtained their doctorate no more than two years before October 15, 2013 (except for applications for renewal).
- + Citizens of other countries and Canadian citizens (or permanent residents) who are not domiciled in Québec who seek to pursue their postdoctoral training in Québec
- + Incumbents of a university position are not eligible.

Terms and conditions

- + Must pursue full-time postdoctoral training in human health sciences research
- + Must be supervised by an independent investigator
- + Must meet Fonds de recherche du Québec ethics requirements
- + Must choose a host university different from the one which awarded the Doctorate
- + Must choose a supervisor and a co-supervisor different from that of the Doctorate
- + Applicants who have not submitted their doctoral thesis when applying for the award must provide proof of submission by September 30, 2014.

Website: http://www.frqs.gouv.qc.ca/en/financement/Programmes_2014_2015/f14_fiche_poste_3e_cycle.shtml *Contact:* Lyse Bourbonnais, Program Officer, (514) 873-2114, ext. 1224, lyse.bourbonnais@frq.gouv.qc.ca

Fonds de recherche du Québec – Nature et Technologies – Short-term Research and Upgrading Program for Foreign Students

Program Type: Training

Program Description: This merit-based award program for foreign students is designed to foster international research activities at Québec universities, attract top foreign students and researchers, and enhance the reputation and influence of

Québec universities throughout the world.

Website: http://www.frqs.gouv.qc.ca/en/financement/Programmes_2014_2015/f13_fiche.shtml

Contact: Michel Garceau, michel.garceau@frq.gouv.qc.ca

Program Owner – New Brunswick Health Research Foundation (NBHRF)

The New Brunswick Health Research Foundation (NBHRF) was created in July 2008 with a mandate to coordinate, support and promote health research in New Brunswick. Its vision is a healthy and prosperous New Brunswick through excellence in health research and innovation. Its mission is to provide leadership and support to build health research capacity, improve the health of New Brunswickers and advance the knowledge economy.

The NBHRF is an independent organization governed by a board of directors comprised of key stakeholders from the health research community in New Brunswick. Provincial funding is provided by Business New Brunswick.

NBHRF – Establishment Grant

Program Type: Research program

Thematic Area: Health

Funding Opportunity Description: The Establishment Grant Program is intended to assist in attracting outstanding researchers to the province of New Brunswick by providing funding to establish independent health research programs within the province. Although the investigator is the applicant, it is expected that the investigator and their department head will collaborate on the complete application. Research supported must be in a field of human health research, defined broadly as encompassing biomedical science, clinical research, health services and systems research, and research on the cultural, social, and environmental determinants of population health. The program is offered annually, subject to availability of funding.

- + The grant may be up to CAD \$60,000 per year for up to 2 years.
- + The grant may be used to match funds from another agency, provided that the request to the other agency has already been submitted or approved at the time of application to NBHRF and that all NBHRF requirements and processes are followed.
- + 50% of the funds may be used toward a teaching release.
- + Funds are advanced to the applicant organization only after the candidate has accepted a tenure-track employment offer and must be utilized within two years of the date disbursed.

Eligibility Criteria for Europeans:

To be eligible to apply, the investigator must:

- + be a Canadian citizen, permanent resident, or actively pursuing such status,
- + Submit an application to the Canadian Institutes of Health Research (CIHR) or any other national funding agency (i.e. NSERC, any nationally peer

reviewed charity] for funding. Once the application has been through the peer review process and scored 3.5 or above, the investigator may submit the application to NBHRF for consideration. The original application to the agency and all agency peer review comments and evaluations must be submitted to NBHRF through the online application process.

- + not simultaneously be a graduate student, research fellowship holder or holder of any other training award, or an employee of a for-profit business;
- + not have previously held an NBHRF Establishment Grant;
- + be able to commit a minimum of 50% of his/her time to conduct research [NBHRF may seek verification of this commitment]
- + be sponsored by the appropriate department head and dean of a New Brunswick university
- + not simultaneously hold an NBHRF New Investigator Grant
- + Applications will be accepted within fifteen months of the date of the original decision notification of the national granting agency.

Website: <http://www.nbhrf.com/nbhrf-establishment-grant>

Contact: Leah Carr, Manager, Funding Programs, leah.carr@nbhrf.com

The Beatrice Hunter Cancer Research Institute/NBHRF – New Investigator Award

Program Type: Research Program

Thematic Area: Health – Cancer

Funding Opportunity Description: The New Brunswick Health Research Foundation [NBHRF] and the Beatrice Hunter Cancer Research Institute [BHCRF] are pleased to offer the following opportunities: New Investigator Awards of CAD \$25,000 per year for up to 2 years are offered to qualified researchers who are undertaking cancer research in the Province of New Brunswick.

Eligibility Criteria for Europeans: Europeans may apply for this award.

To be eligible, the applicant:

- + Must have an academic or research appointment which allows the individual to pursue the proposed research project
- + Must conduct research within a New Brunswick institution
- + Must engage in independent research activities for the entire duration of the funding

Website: <http://www.nbhrf.com/beatrice-hunter-cancer-research-institutenew-brunswick-health-research-foundation-bhcrinbhrf-awards>

Contact: Leah Carr, Manager, Funding Programs, leah.carr@nbhrf.com

Canadian Programs to which Europeans bring their own funding

Federal

Program Owner - NSERC

NSERC – Strategic Network Grants [SNG]

Program Type: Research network/Innovation

Thematic Areas:

Environmental science and technologies

- + Information and communication technologies (digital economy)
- + Manufacturing
- + Natural resources and energy

Funding Opportunity Description: The SNG program funds complex research proposals that involve multi-sectoral collaborations in targeted areas that could strongly enhance Canada's economy, society or environment within the next 10 years.

Eligibility Criteria for Europeans: Europeans can collaborate with NSERC Strategic Networks by bringing their own funds. Based on the availability of funds, existing NSERC Strategic Networks may be eligible to apply for the Strategic Network Enhancement Initiative, which offers additional funding to strengthen and develop international links.

Website: http://www.nserc-crsng.gc.ca/Professors-Professeurs/RPP-PP/SNG-SRS_eng.asp

Contact: rpp@nserc-crsng.gc.ca

NSERC – Strategic Project Grants [SPG]

Program Type: Research/ Innovation

Thematic Areas:

- + Environmental science and technologies;
- + Information and communication technologies (digital economy);
- + Manufacturing; and
- + Natural resources and energy

Funding Opportunity Description: The SPG program funds early-stage project research in target areas that could strongly enhance Canada's economy, society and environment in the next 10 years.

Eligibility Criteria for Europeans: Europeans can collaborate with Strategic Projects by bringing their own funds. French researchers can apply to a bilateral, parallel call through Agence Nationale de la Recherche [ANR].

Website: http://www.nserc-crsng.gc.ca/Professors-Professeurs/RPP-PP/SPG-SPS_eng.asp
Contact: rpp@nserc-crsng.gc.ca

NSERC – Collaborative Research and Training Experience Program (CREATE)

Program Type: Training

Thematic Areas: At least 60 percent of CREATE funding is directed towards the following priority areas:

- + Environmental science and technologies;
- + Information and communication technologies;
- + Manufacturing; and
- + Natural resources and energy.

Funding Opportunity Description: The CREATE Program is designed to improve the mentoring and training environment for the Canadian researchers of tomorrow by improving areas such as communication, collaboration and professional skills, as well as providing experience relevant to both academic and non-academic research environments.

Eligibility Criteria for Europeans: Can collaborate with funded CREATEs by bringing their own funds. German researchers can apply to a bilateral call through the German Research Foundation [DFG].

Website: http://www.nserc-crsng.gc.ca/Professors-Professeurs/Grants-Subs/CREATE-FONCER_eng.asp
Contact: create@nserc-crsng.gc.ca

Program Owner – Sustainable Development Technology Canada (SDTC)

On behalf of the Government of Canada, Sustainable Development Technology Canada helps commercialize Canadian clean technologies, readying them for growth and export markets. With a portfolio of companies under management valued at more than CAD \$2 billion, SDTC is positioning cleantech as a driver of jobs, productivity and economic prosperity. SDTC operates two funds aimed at the development and demonstration of innovative technological solutions. The SD Tech Fund supports projects that address climate change, air quality, clean water, and clean soil. The NextGen Biofuels Fund supports the establishment of first-of-kind large demonstration-scale facilities for the production of next-generation renewable fuels.

SDTC – SD Tech Fund

Program Type: Innovation program

Thematic Area: Clean technology

Program Description: The SD Tech Fund supports projects that address climate change, air quality, clean water, and clean soil.

Eligibility Criteria for Europeans: A project must be carried out, or primarily carried out, in Canada and must strengthen the Canadian capacity to develop and demonstrate clean technologies by organizations established in Canada. Europeans and European entities can collaborate with Canadians on projects that are funded by the SD Tech

CHAPTER 3

Fund. Europeans and European entities can contribute in-kind, cash or advisory work but cannot receive direct funding from the SD Tech Fund.

Website: www.sdtec.ca

Contact Person: Jennifer Smith, Administrative Assistance – Applications and Virtual Incubator, 613-234-6313, j.smith@sdtec.ca

SDTC – NextGen Biofuels Fund

Program Type: Innovation program

Thematic Area: NextGen Biofuels

Program Description: The NextGen Biofuels Fund supports the establishment of first-of-kind large demonstration-scale facilities for the production of next-generation renewable fuels.

Eligibility Criteria for Europeans: A project must be carried out, or primarily carried out, in Canada and strengthen the Canadian capacity to develop and demonstrate clean technologies by organizations established in Canada. Europeans and European entities can collaborate with Canadian organizations on projects funded by the NextGen Biofuels Fund. Europeans and European organizations can contribute in-kind, cash or advisory work but cannot receive direct funding from the NextGen Biofuels Fund.

Website: www.sdtec.ca

Contact Person: Kenneth Jobity, Director – NextGen Biofuels Fund, 613-234-6313, k.jobity@sdtec.ca

Program Owner – National Research Council (NRC)

NRC is comprised of three integrated R&D divisions, Emerging Technologies, Life Sciences and Engineering, each guided by advisory bodies composed of industry leaders. Under these three umbrella R&D divisions, NRC has 12 integrated and consolidated portfolios focused on key industry sectors, or our areas of R&D. These portfolios represent areas of strategic importance and economic value for Canada. Within each portfolio, NRC has a variety of programs focused on addressing specific business-identified priorities and challenges through a unique offering of technical and advisory services, research facilities, licensing opportunities and programs and partnership opportunities. NRC is an agency of the Government of Canada, reporting to Parliament through the Minister of Industry. It is governed by a council of appointees drawn from its client community.

NRC– EUREKA

Program Type: Capacity Building Program

Thematic Area: R&D partnerships can be pursued in any civilian application area. EUREKA Clusters focus on a number of industrial areas of strategic interest: ICT, Energy, Water and Manufacturing.

Program Description: EUREKA is an inter-governmental network for market-driven R&D that includes 40 pan-European economies, Israel, South Korea and, since 2012, Canada. For industry, research centres and universities seeking to pursue R&D projects abroad, yet reluctant to deal with the associated complexities and risks, EUREKA streamlines the technology partnering process, identifies and secures national

funding sources in their respective country, conducts stringent due diligence, and provides an internationally recognized endorsement via the EUREKA label that brings value to the return on investment. The beneficial results speak for themselves: Since its creation in 1985, EUREKA has generated over 5,300 industrial projects in virtually all civilian (non-military) application areas, coordinating close to €30 billion [CAD \$42 billion] of public and private financing.

Eligibility Criteria for Europeans: Projects must involve at least two EUREKA member states, one of which is Canada. Project leads can be industry (large or SMEs), academia and research institutes for individual projects. Under the EUREKA Eurostars mechanism, Project Leads must be R&D performing SMEs (under 250 employees).

Website: www.eurekanetwork.org; www.eurekanetwork.ca

Contacts:

Melanie Cullins, National Project Coordinator, 613 991 0917, Melanie.Cullins@nrc-cnrc.gc.ca

Bill Dobson, National Project Coordinator for SMEs, 416 954 8330, William.Dobson@nrc-cnrc.gc.ca

Mark Burbidge, Deputy National Project Coordinator, 613 990 1846, Mark.Burbidge@nrc-cnrc.gc.ca

Provincial

Program Owner – Ontario Ministry of Research and Innovation (MRI)

The Ontario Ministry of Research and Innovation supports world-class research, commercialization and innovation taking place across Ontario through a range of programs and services like the Ontario Research Fund, Innovation Demonstration Fund and Ontario Venture Capital Fund.

Together with research partners in universities, colleges and hospitals, entrepreneurs and business leaders, the ministry helps foster scientific discovery and commercialization of new technologies and products that can be marketed to the world. By harnessing Ontario's talented workforce, entrepreneurial spirit and highly developed industry clusters, the ministry is helping build an innovative culture in Ontario that continues to support job creation and economic growth for all Ontarians

MRI – Ontario Research Fund – Research Excellence (ORF-RE)

Program Type: Research Operations Funding

Thematic Area: All research disciplines are eligible, but applications in three focus areas are encouraged: bio-economy and clean technologies; advanced health technologies; and digital media and information & communications technology.

Program Description: The Ontario Research Fund – Research Excellence (ORF-RE) provides research institutions with funding to help support the operational costs of large-scale transformative research of strategic value to the province.

Eligibility Criteria for Europeans: The program encourages international research collaboration; however only Ontario institutions may apply and ORF- RE funding must

be used to support research undertaken in Ontario.

Website: <http://www.ontario.ca/business-and-economy/ontario-research-fund-research-excellence>

Contact: Dawn Edmonds, Senior Policy Advisor, 416-326-9632, Dawn.edmonds@ontario.ca

Program Owner – Quebec Ministry for Higher Education, Research, Science and Technology (MESRST)

The mission of the Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie du Québec (MESRST) is to support the development and promote the quality of college and university education with a view to facilitating access to the highest forms of knowledge and culture. This mission is accomplished by means of developing the knowledge and competencies of all those who express an interest and demonstrate the necessary aptitudes. MESRST also contributes to the development of basic and applied research, science, innovation and technology, among other areas, in academia, industry and society, with a view to sustainable development by promoting a knowledge society, economic development, social progress and respect for the environment. For more information, please visit www.mesrst.gouv.qc.ca/pnri.

MESRST – Research Support Program Component 3: Support for International Initiatives in Research and Innovation

Program Type: Support program for research projects

Program Theme: Funding for research and innovation initiatives

Program Description: This program aims to develop international partnerships by supporting strategic international projects or initiatives in research and innovation environments. Projects in research and innovation are eligible for this program under the regular call for proposals, provided they are in the following sectors: health sciences, natural sciences and engineering, humanities and social sciences, and arts and literature. The program is aimed at businesses and non-profit organizations involved in activities in various sectors of research and innovation and in raising awareness of science and technology, and at public research institutions or international-Québec networks and clusters wishing to develop international partnerships. The amount of funding granted varies according to the type of project and is limited to a maximum of 50% of eligible expenses associated with carrying out the entire Québec portion of project activities.

Eligibility Criteria for Europeans: This program is intended for the Québec market. European partners wishing to apply are therefore encouraged to form a partnership with a Québec-based organization eligible for the program.

Website: <http://www.mesrst.gouv.qc.ca/siiri/>

Contact: Direction des collaborations internationales Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie

393, rue Saint-Jacques, bureau 400

Montréal [Québec] H2Y 1N9

514-873-1767

psr-siiri@mesrst.gouv.qc.ca

**MESRST - Development and Transfer Assistance Program Component 4: Assistance for Sectoral Industrial Research Clusters**

Program Type: Support program for pre-competitive industrial research

Program theme: Funding for sectoral development and financing platforms of collaborative research projects involving companies and public research institutions

Program description: The program aims to bring together businesses, universities and public research centres around collaborative research and development projects. These collaborations make it possible to share the risks and expenses inherent in certain research projects, to facilitate the transfer of knowledge and to enhance the formation of strategic alliances. The funding granted by the Ministère to a sectoral industrial research cluster can represent, per fiscal year, a maximum of 70% of the costs associated with cluster management and facilitation and 40% of the total costs of the research program. The combined government aid (federal, provincial and municipal) cannot exceed 70% of eligible expenses. The industrial members must finance a minimum of 30% of eligible expenses.

Eligibility Criteria for Europeans: This program is intended for the Québec market; European partners wishing to apply are therefore encouraged to form a partnership with a Québec-based organization that is eligible for the program. Note that under this program, only sectoral industrial research clusters recognized by the Ministère qualify for funding. Activities eligible for funding include establishing, implementing and following up the research projects selected by the cluster, as well as any inherent management and facilitation activities. Eligible research activities covered by this program must be carried out in Québec, and funding for these activities by industrial partners must derive in whole or in part from Québec companies.

Website: <http://www.mesrst.gouv.qc.ca/psvt-4/>

Contact: Direction de la recherche industrielle
Ministère de l'Enseignement supérieur, de la Recherche,
de la Science et de la Technologie
393, rue Saint-Jacques, bureau 400
Montréal (Québec) H2Y 1N9
514-873-1767
psvt4@mesrst.gouv.qc.ca

MESRST - Development and transfer assistance program, Component 5: Assistance for innovative technology companies

Type of program: Innovation program

Program theme: Funding for technology company start-ups

Program description:

This program has two objectives. The first is to facilitate access to specialized support services offered by technology business incubators, university entrepreneurship centres and technology business accelerators. Eligible projects are those that have access to specialized services provided by a reputable technology business incubator. The program's second objective is to support technology company start-ups in the marketing of new products or technologically innovative processes. Eligible projects focus on the implementation of the company's operational, financial and business structure. The funding is in the form of a non-refundable contribution as follows:



- + For incubation projects, funding can top 80% of eligible expenses, up to \$40 000 per company over a maximum 36-month period.
- + For seed projects, funding can top 50% of eligible expenses, up to \$300 000 per company over a maximum 18-month period.

Eligibility criteria for European researchers:

The company must be legally incorporated under current Québec or Canadian government laws, operate in Québec and meet the following conditions:

- + At least 50% of the company must be held by other existing entities, and it must not have been created as part of a merger, restructuring, an extension of preexisting activities or a resumption of such activities.
- + The company must have the rights of use of the intellectual property of its product or process and not have made any sales, with the exception of sales for validating the new product.
- + The company must devote a significant amount of its resources to the design and development of its product or process.
- + During the seed phase, evidence of the technical sales concept must have been demonstrated, the commitment of capital risk funds or other sources of private funding must have been confirmed, and the key proponent of the company must work on the project full time.

Program Web site: <http://www.mesrst.gouv.qc.ca/pai-1/>

[page is subject to change]

Contact: Direction de la recherche industrielle
Ministère de l'Enseignement supérieur, de la Recherche,
de la Science et de la Technologie
393, rue Saint-Jacques, bureau 400
Montréal (Québec) H2Y 1N9
Telephone: 514-873-1767
E-mail: pai_v1_amorcage@mesrst.gouv.qc.ca

MESRST - Tax holiday for foreign researchers

Program Type: Tax measure

Program Theme: Support for recruiting foreign researchers by the industry

Program Description: Candidates who benefit from this measure are entitled to a provincial tax holiday for a maximum period of five years: a full 100% holiday for the first two years, 75% for the 3rd year, 50% for the 4th year and 25% for the 5th.

Eligibility criteria for Europeans: This program is intended for researchers who are Canadian non-residents for tax purposes. They must hold the equivalent of a Québec graduate diploma or higher, and work for a Canadian company (not a university) that conducts research and development activities in Québec. Their work must focus almost exclusively on research and development within the company.

Website: <http://www.mesrst.gouv.qc.ca/conge-fiscal-chercheurs/>

Contact: Direction de la recherche industrielle
Ministère de l'Enseignement supérieur, de la Recherche,

de la Science et de la Technologie
393, rue Saint-Jacques, bureau 400
Montréal (Québec) H2Y 1N9
514-873-1767
conges.fiscaux@mesrst.gouv.qc.ca

MESRST - Tax holiday for foreign experts

Program Type: Tax measure

Program Theme: Support for recruiting foreign experts by the industry

Program Description: Candidates who benefit from this measure are entitled to a provincial tax holiday for a maximum period of 5 years: a full 100% holiday for the first 2 years, 75% for the 3rd year, 50% for the 4th year and 25% for the 5th.

Eligibility criteria for Europeans: This program is intended for experts who are Canadian non-residents for tax purposes. They must hold the equivalent of a Québec graduate diploma or higher, and work for a Canadian company (not a university) that conducts research and development activities in Québec. Their work must focus almost exclusively on tasks involving the application of the results of research and development within the company. The application of this research may take the form of commercialization of innovation, funding of innovation activities, technology transfer (patents, licenses, etc.), and innovation management.

Website: <http://www.mesrst.gouv.qc.ca/conge-fiscal-experts/>

Contact:

Direction de la recherche industrielle
Ministère de l'Enseignement supérieur, de la Recherche,
de la Science et de la Technologie
393, rue Saint-Jacques, bureau 400
Montréal (Québec) H2Y 1N9
514-873-1767
conges.fiscaux@mesrst.gouv.qc.ca

Program Owner - Alberta Innovates

Alberta Innovates is a provincially funded system for innovation that companies and researchers around the world agree is unique. Businesses, government, and universities collaborate to share resources, experts, and ideas across sectors. University researchers work together, unrestricted by academic barriers.

Alberta Innovates - Alberta Innovates Connector

Program Type: Multipurpose. One window access into the research and innovation system.

Thematic Areas: Biotechnology, Health, Energy, Environmental, Nanotechnology, Genomics, Proteomics and Metabolomics, and Information Communications Technologies (ICT). Calls open to all thematic areas.

Program Description: Professional staff at the Connector consults with researchers, organizations, or companies (including those from the EU) that have an interest in collaborating on research and innovation projects in the province of Alberta. Staff may explore client interests, areas of expertise, their collaboration partners, project plans,

funding strategy, and other relevant issues in order to identify the best possible linkages into the Alberta innovation system based on the client's unique circumstances. The Connector is funded by the government of Alberta to consult with clients and there is no cost to use the service.

Eligibility Criteria for Europeans: The Connector is open to anyone interested in research and innovation in Alberta. Eligibility varies for specific projects, collaboration partners, programs, services, or infrastructure needs. Contact the Connector to discuss your specific project needs and circumstances.

Website: www.albertainnovates.ca/connector

Contact:

Alex Umnikov
500 Phipps-McKinnon Building
10020 - 101A Avenue NW
Edmonton, Alberta T5J 3G2
alex.umnikov@gov.ab.ca
<http://eae.alberta.ca/economic-development/technology.aspx>

CHAPTER 4 Other Canadian program owners that may be of interest

Federal

Program Owner - The Canada Foundation for Innovation

The Canada Foundation for Innovation (CFI) is a non-profit corporation created by the Government of Canada through the 1997 *Budget Implementation Act*. Its mission is to benefit Canadians by strengthening the capacity of Canadian universities, colleges, research hospitals and non-profit research institutions to carry out world-class research and technology development.

The infrastructure funded by the CFI includes the state-of-the-art equipment, laboratories, databases, specimens, scientific collections, computer hardware and software, communications linkages and buildings necessary to conduct leading-edge research.

State-of-the-art infrastructure allows researchers to push the boundaries of knowledge, explore the unknown and generate exciting outcomes that benefit humankind. It helps institutions attract, retain and train the top researchers from around the globe and fosters collaboration among the academic, private, public and non-profit sectors on a range of projects and across many disciplines. The solid platforms of research infrastructure being established in Canadian institutions are serving to support business innovation and private-sector research and development.

The CFI has established a rigorous, competitive and independent merit-review process that rewards excellence. The CFI relies on experts from across Canada and around the world to ensure that only the very best projects receive funding. CFI funding is awarded to Canadian research institutions, not individual researchers, and all funding proposals must support an institution's strategic research plan.

Eligible Canadian institutions apply to the CFI through a suite of funds, and all applications are assessed using three broad criteria:

- + Quality of the research and its need for infrastructure;
- + Contribution to strengthening the capacity for innovation;
- + Potential benefits of the research to Canada.

The CFI funds up to 40 percent of a project's research infrastructure costs. This funding is then leveraged to attract the remaining investment from partners in the public, private and nonprofit sectors.

Website: www.innovation.ca

Contact: Dr. David Moorman, Senior Programs Planning Officer, Canada Foundation for Innovation david.moorman@innovation.ca

Provincial

Program Owner - Ontario Centres of Excellence (OCE)

Ontario Centres of Excellence (OCE) drive the development of Ontario's economy by helping create new jobs, products, services, technologies and businesses. In partnership with industry, OCE co-invests to commercialize innovations originating in the province's publicly funded colleges, universities and research hospitals.

The commercialization and talent development projects OCE supports are in the segments of the economy that will drive Ontario's future prosperity and global competitiveness. These segments include energy and environment; advanced manufacturing; advanced health technologies; and information, communications technologies and digital media.

Through its flexible suite of programs, OCE continues to act as a catalyst for innovative business development helping companies to grow and achieve sustainable, commercial success and global competitiveness. OCE has three main program areas and its funding is available to Ontario academia and industry.

Industry-Academic Collaboration - OCE's portfolio of industry-academic collaboration programs is aimed at enabling knowledge mobilization, commercialization and increased productivity in Ontario companies. Collaborations provide significant economic impact for Ontario and indirectly support start-ups, SMEs and large companies through projects with Ontario's publicly funded academic research institutions. Through these programs, post-secondary research institutions receive funding to address the specific challenge identified by the industry partner.

Commercialization - OCE helps its clients commercialize their intellectual property (IP) by providing a comprehensive suite of programs and services across the full commercialization continuum from idea to market. The programs are designed to accelerate the successful commercialization of IP emerging from publicly funded Canadian academic and research institutions. OCE works with high-potential early-stage entrepreneurs and innovative enterprises to help these emerging businesses grow to the point where they can attract private investment, and ultimately become sustainable, global competitors.

Youth Entrepreneurship - OCE provides support for Ontario's student entrepreneurs and has demonstrated a sustained commitment and successful track record in fostering student and campus entrepreneurship and supporting entrepreneurial activities across Ontario. OCE is deploying an expanded portfolio of youth entrepreneurship programs and providing support across the spectrum of entrepreneurship activities, including training and development support to students; seed capital financing for young entrepreneurs; and support for on-campus entrepreneurship activities.

Contact:

Graham Booth, Corporate Planning and Development Manager 416.861.1092 x 1057
graham.booth@oce-ontario.org



Program Owner - Michael Smith Foundation for Health Research (MSFHR)

British Columbia (BC) is home to a vibrant health research community with an international reputation for excellence. A central pillar of support for BC's health researchers is the Michael Smith Foundation for Health Research (MSFHR), an organization that works province-wide to empower BC's best and brightest to pursue world-class innovation and stretch the bounds of what health research can achieve.

MSFHR was founded in 2001 by the provincial government to revitalize BC's health research enterprise and to attract substantial investment from a range of funding sources. Investing in more than 1,500 researchers has allowed MSFHR to: *Discover solutions to our greatest health challenges.* MSFHR programs advance BC's ability to generate world-class health innovation by providing vital early-career support to new investigators and up-and-coming research stars.

Connect knowledge and action. As a provincial leader in the science and practice of knowledge translation, MSFHR works to bridge the gap between what is known to improve health and what is done to improve health at the point-of-care.

Engage partners to address provincial priorities. Harnessing the power of health research for innovation and change requires coordination and strategic vision. As a trusted, non-partisan voice for BC's health research community, MSFHR provides leadership and unites diverse stakeholders for province-wide planning and action.

If you are interested in learning more about our research competitions, or how you can partner with the Foundation, please contact us at:

Email: info@msfhr.org

Website: www.msfhr.org



Guide Index

Programs by type

Research

- + Canada Excellence Research Chairs pg. 6
- + Canada Research Chairs pg. 6
- + SSHRC Insight Development Grants pg. 7
- + SSHRC Partnership Grants pg. 8
- + SSHRC Partnership Development Grants pg. 8
- + CIHR Programs pg. 9
- + The Beatrice Hunter Cancer Research Institute/NBHRF-New Investigator Award pg. 13
- + NSERC Strategic Network Grants pg. 14
- + NSERC Strategic Project Grants pg. 14

Capacity Building

- + Banting Postdoctoral Fellowships pg. 6
- + Vanier Canada Graduate Scholarships pg. 7
- + SSHRC Partnership Grants pg. 8
- + NRC EUREKA pg. 16

Training

- + Industrial Post Graduate Scholarships Program pg. 7
- + Fonds de Recherche du Quebec Postdoctoral Training for Researchers Living Outside of Quebec pg. 11
- + Fonds de Recherche du Quebec Short-term Research and Upgrading Program for Foreign Students pg. 11
- + NBHRF Establishment Grant pg. 12
- + NSERC Collaborative Research and Training Experience Program pg. 15

Knowledge Mobilization

- + SSHRC Partnership Grants pg. 8
- + SSHRC Partnership Development Grants pg. 8
- + SSHRC Connection Grants pg. 8

Innovation

- + SSHRC Partnership Grants pg. 8
- + SSHRC Partnership Development Grants pg. 8
- + SDTC SD Tech Fund pg. 15



- + SDTC NextGen BioFuels Fund pg. 16
- + MESRST Development and Transfer Assistance Program Component 4: Assistance for Sectoral Industrial Research Clusters pg. 19
- + MESRST - Development and Transfer Assistance Program, Component 5: Assistance for Innovative Technology Companies pg. 19

Research Operations and Infrastructure

- + Ontario Research Fund – Research Excellence pg. 17
- + MESRST Research Support Program Component 3: Support for International Initiatives in Research and Innovation pg. 18

Tax Measure

- + MESRST Tax holiday for foreign researchers pg. 20
- + MESRST Tax holiday for foreign experts pg. 21

Programs by thematic area

All thematic areas

- + Canada Research Chairs pg. 6
- + Banting Postdoctoral Fellowships pg. 6
- + Vanier Canada Graduate Scholarships pg. 7
- + Ontario Research Fund – Research Excellence
- + NRC EUREKA pg. 17
- + MESRST Research Support Program Component 3: Support for International Initiatives in Research and Innovation pg. 18
- + MESRST Tax holiday for foreign researchers pg. 20
- + Alberta Innovates Connector pg. 21

Environmental science and technologies

- + Canada Excellence Research Chairs pg. 6
- + Fonds de Recherche du Quebec Short-term Research and Upgrading Program for Foreign Students pg. 11
- + NSERC Strategic Network Grants pg. 14
- + NSERC Strategic Project Grants pg. 14
- + NSERC Collaborative Research and Training Experience Program pg. 15

Information and communication technologies (digital economy)

- + Canada Excellence Research Chairs pg. 6
- + NSERC Strategic Network Grants pg. 14
- + NSERC Strategic Project Grants pg. 14
- + NSERC Collaborative Research and Training Experience Program pg. 15



- + NRC EUREKA pg. 16
- + Ontario Research Fund – Research Excellence pg. 17

Health and related life sciences and technologies

- + Canada Excellence Research Chairs pg. 6
- + CIHR Programs pg. 9
- + Fonds de Recherche du Quebec Postdoctoral Training for Researchers Living Outside of Quebec S. 11
- + NBHRF Establishment Grant pg. 12
- + The Beatrice Hunter Cancer Research Institute/NBHRF- New Investigator Award pg. 13
- + Ontario Research Fund – Research Excellence pg. 17

Natural resources and energy

- + Canada Excellence Research Chairs pg. 6
- + Fonds de Recherche du Quebec Short-term Research and Upgrading Program for Foreign Students pg. 11
- + NSERC Strategic Network Grants pg. 14
- + NSERC Strategic Project Grants pg. 14
- + NSERC Collaborative Research and Training Experience Program pg. 15
- + NRC EUREKA pg. 16

Natural sciences

- + Industrial Post Graduate Scholarships Program pg. 7
- + Fonds de Recherche du Quebec Short-term Research and Upgrading Program for Foreign Students pg. 11
- + NSERC Collaborative Research and Training Experience Program pg. 15
- + NRC EUREKA pg. 16

Engineering

- + Industrial Post Graduate Scholarships Program pg. 7
- + Fonds de Recherche du Quebec Short-term Research and Upgrading Program for Foreign Students pg. 11

Social sciences and humanities

- + SSHRC Insight Development Grants pg. 7
- + SSHRC Partnership Grants pg. 8
- + SSHRC Partnership Development Grants pg. 8
- + SSHRC Connection Grants pg. 8

Manufacturing



+ NSERC Strategic Network Grants	pg. 14
+ NSERC Strategic Project Grants	pg. 14
+ NSERC Collaborative Research and Training Experience Program	pg. 15
+ NRC EUREKA	pg. 16
+ MESRST Development and Transfer Assistance Program Component 4: Assistance for Sectoral Industrial Research Clusters	pg. 19

Bioeconomy and Biofuels

+ SDTC NextGen BioFuels Fund	pg. 16
+ Ontario Research Fund – Research Excellence	pg. 17

Clean Technology

+ SDTC SD Tech Fund	pg. 15
---------------------	--------

Water

+ NRC EUREKA	pg. 16
--------------	--------

Industrial Research

+ MESRST Development and Transfer Assistance Program, Component 5: Assistance for Innovative Technology Companies	pg. 19
+ MESRST Tax holiday for foreign experts	pg. 21

Programs by Province

Quebec

+ Fonds de recherche du Québec – Health – Postdoctoral Training for Applicants Living Outside of Québec	pg. 11
+ Fonds de recherche du Québec – Nature et Technologies Short-term Research and Upgrading Program for Foreign Students	pg. 11
+ MESRST – Research Support Program Component 3: Support for International Initiatives in Research and Innovation	pg. 18
+ MESRST – Development and Transfer Assistance Program Component 4: Assistance for Sectoral Industrial Research Clusters	pg. 19
+ MESRST – Development and transfer assistance program, Component 5: Assistance for Innovative Technology Companies	pg. 19
+ MESRST – Tax holiday for foreign researchers	pg. 20
+ MESRST – Tax holiday for foreign experts	pg. 21

New Brunswick

+ NBHRF – Establishment Grant	pg. 12
-------------------------------	--------



+ The Beatrice Hunter Cancer Research Institute/NBHRF – New Investigator Award	pg. 13
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Ontario

+ MRI – Ontario Research Fund – Research Excellence (ORF-RE)	pg. 17
--	--------

Alberta

+ Alberta Innovates – Alberta Innovates Connector	pg. 21
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