

Key Federal Government Business Innovation Programs:

DEPARTMENT	PROGRAM	BUDGET	PROGRAM DESCRIPTION
AGRICULTURE AND AGRI-FOOD CANADA	ENABLING COMMERCIALIZATION AND ADOPTION	\$200M (2017-2022)	Enabling Commercialization and Adoption Stream facilitates the commercial demonstration, commercialization and adoption of innovative agri-based products, technologies, processes or services. This stream is designed to support and reduce the financial risk associated with late-stage activities on the innovation continuum.
BUSINESS DEVELOPMENT BANK OF CANADA			<p>BDC offers loans and advisory services with a focus on small and medium-sized companies. BDC Capital, a subsidiary of BDC, offers specialized financing, including venture capital, equity as well as growth and business transition capital. BDC's Venture Capital arm makes strategic investments in Canadian companies through its Energy/Cleantech Fund, Healthcare Fund and IT Fund. BDC is a complementary lender, offering commercial loans and investments that complement support available from private-sector financial institutions.</p> <p>To accelerate commercialization and growth, Budget 2017 proposes to provide: nearly \$1.4 billion in new financing, starting in 2017–18, through the Business Development Bank of Canada and Export Development Canada:</p> <ul style="list-style-type: none"> • \$380 million in equity financing to support clean technology firms; • \$570 million in working capital to support clean technology firms; and • approximately \$450 million in additional project financing for capital-intensive clean technology firms. <p>https://www.bdc.ca/en/pages/home.aspx</p>
CANADIAN HERITAGE	CANADA MEDIA FUND	\$352M	<p>The Canada Media Fund (CMF) delivers financial support to the Canadian television and digital media industries through two streams of funding. The Experimental Stream encourages the development of innovative, interactive digital media content and software applications and the Convergent Stream supports the creation of convergent television and digital media content for consumption by Canadian.</p> <p>https://cmf-fmc.ca/</p>

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CANADA REVENUE AGENCY	SCIENTIFIC RESEARCH AND EXPERIMENTAL DEVELOPMENT (SR&ED) PROGRAM		<p>The SR&ED Program is a federal tax incentive program designed to encourage Canadian businesses of all sizes and in all sectors to conduct research and development (R&D) in Canada. Administered by the Canada Revenue Agency (CRA)</p> <p>https://www.canada.ca/en/revenue-agency/services/scientific-research-experimental-development-tax-incentive-program/claiming-tax-incentives.html</p>
CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA	ABORIGINAL BUSINESS AND ENTREPRENEURSHIP DEVELOPMENT (ABED)		<p>Aboriginal Business and Entrepreneurship Development (ABED) works with Aboriginal entrepreneurs and its partners to provide a range of services and supports. Aboriginal entrepreneurs and communities can qualify for business development support to assist with business planning; establishment (capital); costs; business acquisitions; business expansions; marketing initiatives that are local, domestic, or export oriented; new product or process development; adding technology to improve operations and competitiveness; operating costs in association with capital costs; and financial services, business support, business-related training, and mentoring services.</p> <p>https://www.aadnc-aandc.gc.ca/eng/1375201178602/1375202816581</p>
EXPORT DEVELOPMENT CANADA			<p>EDC provides trade credit insurance and export financial services, bonding products and small business solutions to Canadian exporters and investors and their international buyers. EDC also supports Canadian direct investment abroad and investment into Canada. Much of its business is done in partnership with other financial institutions and through collaboration with the government of Canada.</p> <p>To accelerate commercialization and growth, Budget 2017 proposes to provide: nearly \$1.4 billion in new financing, starting in 2017–18, through the Business Development Bank of Canada and Export Development Canada:</p> <ul style="list-style-type: none"> • \$380 million in equity financing to support clean technology firms; • \$570 million in working capital to support clean technology firms; and • approximately \$450 million in additional project financing for capital-intensive clean technology firms. <p>https://www.edc.ca/</p>

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GLOBAL AFFAIRS CANADA	CANEXPORT	\$50M (2016-2021)	<p>The CanExport program is a five-year, \$50M federal program providing direct financial assistance to small and medium-sized businesses (SMEs) registered in Canada that are seeking to develop new export opportunities and markets, especially high-growth emerging markets.</p> <p><a href="http://international.gc.ca/trade-commerce/funding-financement/canexport/about-
apropos.aspx?lang=eng">http://international.gc.ca/trade-commerce/funding-financement/canexport/about- apropos.aspx?lang=eng</p>
INNOVATION, SCIENCE AND ECONOMIC DEVELOPMENT CANADA	INNOVATION SUPERCLUSTERS INITIATIVE	\$950M (2017-2022)	The program aims to pull together technology clusters across the country into large collectives, focussing on technology innovation in the areas of ocean sciences, artificial intelligence, advanced manufacturing, protein industry, and digital technology.
	CENTRES OF EXCELLENCE FOR COMMERCIALIZATION AND RESEARCH	\$30M	<p>Centres of Excellence for Commercialization and Research (CECR) match clusters of research expertise with the business community to share the knowledge and resources that bring innovations to market faster. Centres advance research and facilitate commercialization within four priority areas: the environment; natural resources and energy; health and life sciences; and information and communications technologies.</p> <p>http://www.nce-rce.gc.ca/Programs-Programmes/CECR-CECR/Index_eng.asp</p>
	INNOVATIVE SOLUTIONS CANADA	\$100M	<p>Innovative Solutions Canada supports the scale up and growth of Canada's innovators and entrepreneurs by having the federal government act as a first customer. By funding proposed solutions, the program supports the development of early-stage, pre-commercial innovations.</p> <p>https://www.ic.gc.ca/eic/site/101.nsf/eng/home</p>
	STRATEGIC INNOVATION FUND	\$1.26B (2017-2022)	<p>The Strategic Innovation Fund allocates repayable and non-repayable contributions to firms of all sizes across all of Canada's industrial and technology sectors. The Strategic Innovation Fund's objective is to simplify the application processes, accelerate processing, and provide assistance that is more responsive and focused on results. The program has four Streams:</p> <ul style="list-style-type: none"> • Stream 1: Encourage R&D that will accelerate technology transfer and commercialization of innovative products, processes and services • Stream 2: Facilitate the growth and expansion of firms in Canada

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			<ul style="list-style-type: none"> Stream 3: Attract and retain large scale investments to Canada Stream 4: Advance industrial research, development and technology demonstration through collaboration between the private sector, researchers and non-profit organizations. https://www.canada.ca/en/innovation-science-economic-development/programs/strategic-innovation-fund.html
	SUSTAINABLE DEVELOPMENT TECHNOLOGY CANADA	\$400M (2017 -2022)	<p>The SD Tech Fund supports the development and pre-commercial demonstration of clean technologies. This funding will support projects across Canada to develop and demonstrate new clean technologies that promote sustainable development, including those that address environmental issues such as climate change, air quality, clean water and clean soil.</p> https://www.sdtc.ca/en
	VENTURE CAPITAL CATALYST INITIATIVE	\$400M (2017-2020)	<p>Through the Venture Capital Catalyst Initiative, the federal government is seeking to build a portfolio of large funds-of-funds and alternative models that strengthen and broaden the Canadian Venture Capital ecosystem, and increase the availability of late-stage Venture Capital over time. The Initiative will allocate capital to two streams:</p> <ul style="list-style-type: none"> Stream 1 will allocate \$350M to large private sector-led funds-of-funds that will seek to maximize returns through diversified investments, support skilled VC fund managers, and attract substantial private sector capital. Stream 2 will allocate \$50M for proposals in areas that can provide a financial return to investors, but would not otherwise be addressed by Stream 1. Applicants under this stream should have strategies focused on supporting underrepresented groups such as women or diverse fund management teams and entrepreneurs, or emerging regions and sectors. https://www.ic.gc.ca/eic/site/061.nsf/eng/h_03052.html
	ACCELERATED GROWTH SERVICE	\$13.5M (2018-2023)	<p>The Accelerated Growth Service (AGS) has been consolidated with the Industrial Research Assistance Program's Concierge Service. AGS helps growth-oriented Canadian businesses to expand by accessing key government services they need to grow, such as financing, exporting, innovation services and business advice.</p>

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	INDUSTRIAL AND TECHNOLOGICAL BENEFITS POLICY		https://www.ic.gc.ca/eic/site/086.nsf/eng/home
	CLEAN GROWTH HUB	\$12M (2017-2021)	The Clean Growth Hub is a whole-of-government focal point for clean technology focused on supporting companies and projects, coordinating programs and tracking results. The Hub's team of experts from across government will help companies and researchers pursuing clean technology projects identify the federal programs and supports most relevant to their needs. Hub representatives can also help answer questions regarding policy, regulatory and procurement issues.
NATIONAL DEFENCE	DEFENCE INNOVATION RESEARCH PROGRAM (DIRP)		The goal of the DIRP is to benefit Canada by introducing new and innovative technologies into the Department of National Defence and the Canadian Armed Forces. The program also supports the strategic research interests of the Canadian Armed Forces, the strategic objectives of DRDC, and research and innovation opportunities for the Canadian defence and security innovation base.
	INNOVATION FOR DEFENCE EXCELLENCE AND SECURITY (IDEaS)	\$313M (2017-2022)	Announced in Canada's defence policy (June 2017), the Innovation for Defence Excellence and Security (IDEaS) program aims to improve DND's access to the creative potential of Canadian innovators to build defence capability and economic impact. The program supports the formation of an innovation ecosystem from the early stages of an idea, creates awareness of defence and security challenges and mobilizes innovators to develop prototypes and capabilities for defence and security capabilities. https://www.canada.ca/en/department-national-defence/programs/defence-ideas.html
NATURAL RESOURCES	ENERGY INNOVATION PROGRAM	\$49M (2016-2019)	The Energy Innovation Program supports research, development and demonstration projects to bolster innovation in the clean energy sector. http://www.nrcan.gc.ca/energy/funding/icg/18876
	ECOENERGY INNOVATION INITIATIVE		Activities funded under ecoEI are in five strategic priority areas including: Energy Efficiency, Clean Electricity and Renewables, Bioenergy, Electrification of Transportation, and Unconventional Oil and Gas. The Initiative consists of two separate funding streams: R&D projects and demonstration projects. http://www.nrcan.gc.ca/energy/funding/eii/4985

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	FOREST INNOVATION PROGRAM	\$19.6M (2016)	The Forest Innovation Program (FIP) supports research, development and technology transfer activities across Canada's forest sector. Together, these activities are intended to help the sector pursue its ongoing transformation through the development and adoption of innovative science-based solutions. http://www.nrcan.gc.ca/forests/federal-programs/13137
	FOREST RESEARCH INSTITUTES INITIATIVE	\$2.4M (2018-19)	The overall objective of the Forest Research Institute Initiative is to support NRCan's goal of sustainable natural resources development by harnessing innovation and technology through public / private collaboration to advance the competitiveness of the forest sector.
	INDUSTRIAL RESEARCH ASSISTANCE PROGRAM	\$700M (2018-2023)	The Industrial Research Assistance Program (NRC-IRAP) is an innovation assistance program that supports small and medium-sized enterprises (SMEs) in the development and commercialization of technologies. https://www.nrc-cnrc.gc.ca/eng/irap/
	INVESTMENTS IN FOREST INDUSTRY TRANSFORMATION (IFIT) PROGRAM	\$55M (2017-2022)	The Investments in Forest Industry Transformation (IFIT) program's goal is to provide funding for projects at the pilot to commercialization phase, with the intent of helping these technologies get to market. http://www.nrcan.gc.ca/forests/federal-programs/13139
NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA	STRATEGIC PARTNERSHIP GRANTS FOR NETWORKS AND PROJECTS	\$49M (2016)	The goal of NSERC's Strategic Partnership Grants is to increase research and training in targeted areas that could strongly enhance Canada's economy, society and/or environment within the next 10 years. Research and training under these grants must be conducted through a partnership between academic researchers and industry or government organizations. http://www.nserc-crsng.gc.ca/Professors-Professeurs/RPP-PP/SPG-SPS_eng.asp
PUBLIC SERVICES AND PROCUREMENT CANADA	BUILD IN CANADA INNOVATION PROGRAM	\$23M (2016)	The Build in Canada Innovation Program (BCIP) is intended to help Canadian companies of all sizes move their state-of-the-art goods and services from the laboratory to the marketplace. https://www.tpsgc-pwgsc.gc.ca/app-acq/picc-bcip/index-eng.html

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WESTERN ECONOMIC DIVERSIFICATION CANADA	WESTERN DIVERSIFICATION PROGRAM	\$21M (2017-18)	<p>The Western Diversification Program (WDP) is the main program through which Western Economic Diversification Canada makes strategic investments in initiatives with not-for-profit organizations with the purpose of enhancing and strengthening the economy of Western Canada.</p> <p>https://www.wd-deo.gc.ca/eng/301.asp</p>
	WESTERN INNOVATION INITIATIVE (WINN)	\$100M (2013-2019)	<p>The Western Innovation (WINN) Initiative is a five-year federal initiative that offers repayable contributions for small and medium-sized enterprises (SMEs) with operations in Western Canada, in order to help move their new and innovative technologies from the later stages of research and development to the marketplace.</p> <p>https://www.wd-deo.gc.ca/eng/home.asp</p>

Federal Innovation Items in Recent Federal Budgets

INNOVATION ITEM	DESCRIPTION
CanCode Program	<p>This program supports initiatives providing educational opportunities for coding and digital skills development to Canadian youth from kindergarten to grade 12 (K-12). It also supports initiatives that provide K-12 teachers with the training and professional development they need to introduce digital skills, coding and related concepts into the classroom.</p> <p>https://www.canada.ca/en/innovation-science-economic-development/programs/science-technology-partnerships/cancode.html</p>
MITACS	<p>Mitacs is a national, not-for-profit, research organization dedicated to promoting high-quality research and innovation by building linkages between academia and industry through internships. Mitacs Accelerate is a national internship program that provides graduate students and postdoctoral fellows with four to six month internships at a company, under the guidance of a professor. Mitacs Elevate is a postdoctoral fellowship program which provides a foundation of research, business, entrepreneurship and scientific management skills to recent PhD graduates. Mitacs Globalink program is composed of four sub-programs, which create opportunities for international students to conduct research in Canada and for Canadian students to conduct research in other countries.</p> <p>http://www.mitacs.ca/en</p>
Telecommunications Act Review	<p>To ensure that Canadians continue to benefit from an open and innovative Internet, the Government of Canada has appointed an external Panel to review Canada's communication legislative framework. The review will examine issues such as telecommunications and content creation in the digital age, net neutrality and cultural diversity, and how to strengthen the future of Canadian media and Canadian content creation.</p> <p>https://www.ic.gc.ca/eic/site/110.nsf/eng/home</p>
Intellectual Property Strategy	<p>The IP Strategy will help Canadian businesses, creators, entrepreneurs and innovators understand, protect and access intellectual property (IP). The IP Strategy is composed of legislation, advice and tools for growth.</p> <p>http://www.ic.gc.ca/eic/site/108.nsf/eng/h_00000.html</p>
NRC Reimagine	<p>Budget 2018 announced a "re-imagined" NRC, proposing to provide \$540M over five years and \$108M annually for measures to reinforce research strengths and role as a trusted collaboration partner of industry including the following:</p> <ul style="list-style-type: none"> • \$150M over five years and \$30M per year ongoing for NRC scientists to work with innovators from post-secondary institutions and businesses on multi-party research and development programs

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	<ul style="list-style-type: none"> • \$30M over five years and \$6M ongoing to establish an ideation fund to target breakthrough research ideas through a competitive, peer-reviewed process • \$62M over five years with \$12.4M per year ongoing, to lower access fees charged to small and medium-sized enterprises and universities and colleges • The conversion of \$59.6M per year in temporary funding into ongoing, permanent funding to allow for better long-term research planning and delivery <p>Budget 2018 also announced an investment of \$700M over five years starting in 2018-2019, and \$150M per year ongoing to support business research and development projects up to a new threshold of \$10M. In addition, Budget 2018 highlighted the targeted actions that the NRC will be taking to include more women, youth, Indigenous peoples, persons with disabilities and visible minorities among our researchers.</p> <p>https://www.nrc-cnrc.gc.ca/eng/about/corporate_overview/year_at_glance_2016.html</p>
Stats Can Innovation	The information compiled by this survey will be used by governments to better understand the impact of business strategy, innovation decisions and operational adaptations on the Canadian economy including business competitiveness, efficiency and productivity.
Security in the digital age	<p>The Strategy's core goals are reflected in Budget 2018's substantial investments in cyber security – totaling more than \$500M over five years, the largest single investment in cyber security ever made by the Canadian government. Among the new measures introduced:</p> <ul style="list-style-type: none"> • Funding for the new Canadian Centre for Cyber Security to support leadership and collaboration between different levels of government and international partners, while providing a clear and trusted resource for Canadian citizens and businesses. • The creation of the National Cybercrime Coordination Unit to expand the RCMP's capacity to investigate cybercrime, establishing a coordination hub for both domestic and international partners. • Funding to foster innovation and economic growth, and the development of Canadian cyber talent. <p>https://www.publicsafety.gc.ca/cnt/rsrccs/pblctns/ntnl-cbr-scrtr-strtg/index-en.aspx#s1</p>
SIF Rural Broadband	<p>Federal government plans on investing \$100M in order to support Strategic Innovation Fund (SIF) projects that “relate to LEO satellites and next-generation rural broadband.”</p> <p>“The Government recognizes that access to the internet is more than just a convenience—it is an essential means by which citizens and businesses access information, offer services and create opportunities,” reads an excerpt from the 2018 federal budget proposal. “To reach the most remote areas of Canada, new technological solutions will be required. One promising example is the use of low Earth orbit (LEO) satellites.”</p>

Federal Research Facilities:

National Research Council:

- Herzberg Institute of Astrophysics (Penticton/Victoria) includes:
 - Dominion Radio Astrophysical Observatory
 - Dominion Astrophysical Observatory
 - Canadian Astronomical Data Centre
 - Canadian Advanced Network for Astronomical Research
- Energy, Mining and Environment Research Centre (Vancouver)

Agriculture and Agrifood Canada:

- 2 Agri-Food Research Centres (Summerland/Agassiz)

Canada Food Inspection Agency:

- Sidney Centre for Plant Health (Sidney Centre for Plant Health received \$80M/5 years in Budget 2017 to replace its current facility)
- National Reference Centre for Food Virology – Burnaby

Natural Resources Canada:

- Pacific Forestry Centre (Victoria)

Fisheries and Oceans:

- Institute of Ocean Sciences (Sidney)
- Pacific Biological Station (Nanaimo)
- Centre for Aquaculture and Environmental Research (West Vancouver)
- Cultus Lake Salmon Research Laboratory
- Salmon Assessment and Freshwater Ecosystem (SAFE) Division at SFU

Environment and Climate Change Canada:

- Pacific Environmental Science Centre (North Vancouver)
- Canadian Centre for Climate Modelling and Analysis (Victoria)
- National Laboratory for Coastal and Mountain Meteorology (Vancouver)
- Pacific Wildlife Research Centre (Delta)
- Water and Climate Research Centre (Victoria)

Statistics Canada:

- With the main infrastructure located at UBC, the BC Interuniversity research data centre facilitates researchers' access to social research-related data. There are also branches at SFU, UVic, and UNBC. Funders include SSHRC, CIHR, CFI, Statistics Canada and the university partners.