

UNIVERSITY OF ALBERTA
THE UNIVERSITY OF BRITISH COLUMBIA
UNIVERSITY OF CALGARY
DALHOUSIE UNIVERSITY
UNIVERSITÉ LAVAL
UNIVERSITY OF MANITOBA
MCGILL UNIVERSITY
MCMASTER UNIVERSITY
UNIVERSITÉ DE MONTRÉAL
UNIVERSITY OF OTTAWA
QUEEN'S UNIVERSITY
UNIVERSITY OF SASKATCHEWAN
UNIVERSITY OF TORONTO
UNIVERSITY OF WATERLOO
WESTERN UNIVERSITY

Budget 2018 Summary

February 27, 2018



Group of Canadian Research Universities

Regroupement des universités de recherche du Canada

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TC3+

- \$354.7 million over five years (\$90.1 million per year ongoing) to the Natural Sciences and Engineering Research Council (NSERC) [44.1, 59.4, 70.9, 90.1, 90.1].
- \$354.7 million over five years (\$90.1 million per year ongoing) to the Canadian Institutes of Health Research (CIHR) [44.1, 59.4, 70.9, 90.1, 90.1].
- \$215.5 million over five years (\$54.8 million per year ongoing) to the Social Sciences and Humanities Research Council (SSHRC) [26.8, 36.1, 43.1, 54.8, 54.8]
- Create a new Tri-council fund to support research that is international, interdisciplinary, fast-breaking and higher-risk. The Government proposes to provide \$275 million over five years, starting in 2018–19, and \$65 million per year ongoing [35, 45, 65, 65, 65].
- The RSF will receive \$231.3 million over five years, starting in 2018–19, with \$58.8 million per year ongoing. This represents 25% of new investments in the Councils' base programs – but not including the investment in the new Tri-Council Fund.
- Facilitate equity and diversity through \$6 million over five years (\$0.5 million ongoing) for surveys to collect improved data on researchers, and \$15 million over five years to implement programs that support improved equality and diversity in academia at post-secondary institutions.
- The Natural Sciences and Engineering Research Council will consolidate the Engage Grants, Industrial Research Chairs, Connect Grants, Strategic Partnership Grants for Networks and Projects, and Experience Awards Grants into a single Collaborative Research and Development Grant program.
- The Canadian Institutes of Health Research will consolidate the eHealth Innovations Partnership Program and Proof of Principle Program into a single Industry Partnered Collaborative Research program. The Government will also introduce legislation to separate the functions of the President from those of the Chair of Governing Council at this granting council in order to implement best practices in organizational governance.
- The Government proposes to provide \$140 million over five years, starting in 2018–19, to increase support for collaborative innovation projects involving businesses, colleges and polytechnics through the College and Community Innovation Program.

CRC

- Budget 2018 proposes a new investment of \$210 million over five years [25, 35, 50, 50, 50], starting in 2018–19, with \$50 million per year ongoing, for the Canada Research Chairs Program. These new investments are intended to support early career researchers. Officials tell us that the direction and expected outcomes are clear, but the TC3 will have flexibility to implement as they see fit.

CFI

- Budget 2018 proposes to provide the Canada Foundation for Innovation with \$763 million over five years, starting in 2018–19, to provide the tools researchers need. This includes \$160 million for increased support to Canada's nationally important research facilities through the Foundation's Major Science Initiatives Fund. The Government also proposes to establish permanent funding at an ongoing level of \$462 million per year by 2023–24

Digital

- The Government proposes to provide \$572.5 million over five years, with \$52 million per year ongoing, to implement a Digital Research Infrastructure Strategy that will deliver more open and equitable access to advanced computing and big data resources to researchers across Canada.

Scholarships and Fellowships

- Over the next year, the Government will be doing further work to determine how to better support students, the next generation of researchers, through scholarships and fellowships.

Research Institutions

- To improve the adaptability and effectiveness of federal research funding, the Government will communicate in the coming year new competitive processes for research institutes and organizations. In the meantime, Budget 2018 provides:
 - IQC - \$15 million over three years, starting in 2019–20
 - Centre for Drug Research and Development - \$48 million over three years, starting in 2019–20
 - Rick Hansen Institute - \$23.6 million over four years, starting in 2018–19, through Western Economic Diversification
 - Centre of Excellence on the Canadian Federation - \$10 million in 2018–19 to the Institute for Research on Public Policy to endow a Centre of Excellence on the Canadian Federation

NRC

Budget 2018 announces a “re-imagined” **National Research Council** and proposes to provide \$540 million over five years, starting in 2018–19, and \$108 million annually for measures that will reinforce its research strengths and role as a trusted collaboration partner of industry.

- To catalyze transformative, high-risk, high-reward research with the potential for game-changing scientific discoveries and technological breakthroughs, the Government proposes to provide \$150 million over five years with **\$30 million per year ongoing, to the National Research Council to fund its scientists to work with innovators from post-secondary institutions and businesses on multi-party research and development programs.** This research will be modelled on the highly successful **Defense Advanced Research Projects Agency in the United States.**
- To encourage, test and validate transformative research ideas generated by the National Research Council’s world-class scientists, the Government proposes to provide \$30 million over five years with \$6 million per year ongoing, to the National Research Council to establish an **ideation fund to target breakthrough research ideas through a competitive peer-reviewed** process.
- To enhance collaboration with businesses and improve access to the National Research Council’s specialized facilities and equipment, scientists and technical services, the Government proposes to provide **\$62 million over five years with \$12.4 million per year ongoing, to lower access fees charged to small and medium-sized enterprises and universities and colleges.**
- To allow for better long-term research planning and delivery, the Government will convert the National Research Council’s longstanding temporary funding into ongoing permanent funding by providing \$298 million over five years and \$59.6 million per year ongoing. Total funding proposed under Budget 2018 will raise the **National Research Council’s total annual budget to \$1.1 billion.**

Government Science

- Public Services and Procurement Canada will begin the process for the construction of multi-purpose, collaborative, federal science and technology facilities. Rather than work in silos, this new approach to federal science and discovery will look to bring together federal scientists and science facilities across government including Agriculture and Agri-Food Canada, Natural Resources Canada, Fisheries and Oceans Canada, Environment and Climate Change Canada, the National Research Council and others in order to advance interdisciplinary research on, among other things, climate change, ocean protection, and human health. The Government proposes to provide \$2.8 billion on a cash basis (\$58 million on an accrual basis) over five years, starting in 2018–19, with \$4.5 million per year ongoing.

- Canada's National Microbiology Laboratory - \$9.4 million over five years, starting in 2018–19, to establish a Centre for Innovation in Infectious Disease Diagnostics, funded from the Public Health Agency of Canada's existing resource levels.
- To advance our knowledge of the Canadian Arctic, the Government proposes to provide \$20.6 million over four years, starting in 2019–20 with \$5.1 million per year ongoing, to POLAR Knowledge Canada. This funding will support the Canadian High Arctic Research Station (CHARS) campus and enable world-class cutting-edge research strengthening Canadian leadership in polar science and technology. In addition, the Government proposes to amend the Canadian High Arctic Research Station Act to support the transfer of the CHARS campus to POLAR Knowledge Canada.

Intellectual Property

- To support strategic intellectual property tools that enable economic growth, Budget 2018 also proposes to provide \$33.8 million over five years, starting in 2018–19, to Innovation, Science and Economic Development Canada, including \$4.5 million for the creation of an intellectual property marketplace. This marketplace will be a one-stop, online listing of public sector-owned intellectual property available for licensing or sale to reduce transaction costs for businesses and researchers, and to improve Canadian entrepreneurs' access to public sector-owned intellectual property.
- To better enable firms to access and share intellectual property, the Government proposes to provide \$30 million in 2019–20 to pilot a Patent Collective. This collective will work with Canada's entrepreneurs to pool patents, so that small and medium-sized firms have better access to the critical intellectual property they need to grow their businesses.
- To support the development of intellectual property expertise and legal advice for Canada's innovation community, the Government proposes to provide \$21.5 million over five years, starting in 2018–19.

Indigenous

- Provide the Social Sciences and Humanities Research Council with \$3.8 million in 2018–19 to develop a strategic plan that identifies new ways of doing research with Indigenous communities, including strategies to grow the capacity of Indigenous communities to conduct research and partner with the broader research community
- \$82 million over 10 years, with \$6 million per year ongoing, for the co-creation of a permanent Inuit Health Survey. Funding will build capacity in Inuit communities

to develop and collect survey information and support Inuit self-determination in setting the research agenda in their regions and communities.

Other Research

- The Government also proposes to provide \$10 million over five years for the Mental Health Commission of Canada to help assess the impact of cannabis use on the mental health of Canadians, and \$10 million over five years to the Canadian Centre on Substance Use and Addiction to support research on cannabis use in Canada.
- Provide \$19 million over five years that will be targeted to enhance local community supports for youth at risk and to develop research in support of more culturally focused mental health programs in the Black Canadian community.
- Provide an initial \$30 million over three years to support data and research and innovative practices to promote women and girls' participation in sport, and provide support to national sports organizations to promote the greater inclusion of women and girls in all facets of sport.
- provide \$20 million over five years, beginning in 2018-19, to support a new national research consortium between the Canadian Institutes of Health Research and the Canadian Institute for Public Safety Research and Treatment.
- \$10 million over 5 years, starting in 2018-19, for Public Safety Canada to work with the Canadian Institute for Public Safety Research and Treatment to develop an Internet-based Cognitive Behavioural Therapy pilot as a means of providing greater access to care and treatment for public safety officers across Canada.

Chapter 2—Progress

millions of dollars

	2017– 2018	2018– 2019	2019– 2020	2020– 2021	2021– 2022	2022– 2023	Total
2.1 Investing in Canadian Scientists and Researchers							
Granting Councils	0	115	155	185	235	235	925
Granting Councils: New Tri-Council Fund	0	35	45	65	65	65	275
Granting Councils: Increasing Diversity in Science	0	5	6	4	4	4	21
Granting Councils: Canada Research Chairs	0	25	35	50	50	50	210
Research Support Fund	0	29	39	46	59	59	231
Investing in the Equipment Researchers Need—Canada Foundation for Innovation	0	32	62	120	183	366	763
Harnessing Big Data	0	64	64	166	145	133	572
College and Community Innovation Program	0	20	30	30	30	30	140
Institute for Quantum Computing	0	0	5	5	5	0	15
Centre for Drug Research and Development	0	0	16	16	16	0	48
Rick Hansen Institute	0	6	6	6	6	0	24
Centre of Excellence on the Canadian Federation	0	10	0	0	0	0	10
2.1 Investing in Canadian Scientists and Researchers Total	0	340	463	692	798	942	3,234
2.2 Stronger and More Collaborative Federal Science							
National Research Council	0	108	108	108	108	108	540
Renewing Federal Laboratories	0	18	17	17	18	18	87
<i>Less: Funds Sourced from Existing Departmental Resources</i>	0	-2	-2	-2	-2	-2	-9
Council of Canadian Academies	0	0	0	3	3	3	9
2.2 Stronger and More Collaborative Federal Science Total	0	124	124	126	127	127	627
2.3 Innovation and Skills Plan—A More Client-Focused Federal Partner for Business							
Innovation Canada – Accelerated Growth Service	0	2	3	3	3	3	14
Industrial Research Assistance Program	0	100	150	150	150	150	700
Canadian Technology Accelerators Program	0	2	2	2	2	2	10
Regional Development Agencies	0	80	80	80	80	80	400
Renewal of Base Funding for the Canadian Northern Economic Development Agency	0	20	20	20	20	20	100
Renewal of Base Funding for the Federal Economic Development Agency for Southern Ontario	0	25	159	184	184	184	736
Placing Evidence at the Centre of Program Evaluation and Design	0	3	3	3	3	3	15