Innovative Canadian communications technologies have connected the world from the telephone to the BlackBerry.

Canadian innovators have pushed medical frontiers with life-saving treatments from insulin’s discovery to the development of the pacemaker.

Canadian ingenuity has brought space exploration and space science to new levels from the robotic Canadarm to Dextre.
CANADA’s INNOVATION STRENGTHS

- Informational and Communication Technologies
- Health and Related Life Sciences
- Environmental Science & Technologies
- Natural Resources and Energy
University research accounts for more than 1/3 of Canada’s research efforts, the highest proportion in the G8 countries.

- Highest share among the G8 countries of private sector R&D investment by universities.
- Highest rate of international co-publication with the U.S. – the world’s largest producer of research.
- Has 1,755 Canada Research Chairs and many Research Centres of Excellence at universities across the country.
Canada spends more per capita on its education system than any other country in the G-8

More than 10,000 undergraduate and graduate programs

92 universities - from large, research-intensive… to smaller undergraduate teaching campuses
POST-SECONDARY EDUCATION: UNIVERSITIES

- Bachelor/Master/Doctorate system equivalent to those in the U.S. and Commonwealth countries
- Accessible and supportive professors
- Cutting edge technology and research labs
- Opportunities for co-operative education and internships, working on and off campus
## WORLD UNIVERSITY RANKINGS

<table>
<thead>
<tr>
<th>Institute of Higher Education, Shanghai Jiao Tong University</th>
<th>Times Higher Education World University Rankings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Top 50 Worldwide</strong></td>
<td><strong>Top 50 Worldwide</strong></td>
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<tr>
<td>University of Toronto #27</td>
<td>University of Toronto #17</td>
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<tr>
<td>University of British Columbia #36</td>
<td>University of British Columbia #30</td>
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<tr>
<td></td>
<td>McGill University #35</td>
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<tr>
<td><strong>Top 51-100 Worldwide</strong></td>
<td><strong>Top 51-100 Worldwide</strong></td>
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<tr>
<td>McGill University #61</td>
<td>McMaster University #93</td>
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<td>McMaster University #88</td>
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<td><strong>Top 101-151 Worldwide</strong></td>
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<td>University of Alberta</td>
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<td>Université de Montréal</td>
<td>Université de Montréal</td>
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<tr>
<td><strong>Top 152-202 Worldwide</strong></td>
<td><strong>Top 151-200 Worldwide</strong></td>
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<tr>
<td>University of Waterloo</td>
<td>Dalhousie University</td>
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<td>University of Calgary</td>
<td>Simon Fraser University</td>
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<tr>
<td><strong>Top 201-302 Worldwide</strong></td>
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<tr>
<td>Dalhousie University; University of Alberta</td>
<td>Queen’s University, University of Laval;</td>
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<tr>
<td>Simon Fraser University; University of Guelph;</td>
<td>University of Manitoba; University of Victoria;</td>
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<tr>
<td>University of Ottawa; University of Saskatchewan;</td>
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</tr>
</tbody>
</table>
Overview of Canadian Research Funding for S&T

Federal Funding Programs

• Vanier and Banting
• Canada Research Chairs
• Canada Excellence Research Chairs
• National Research Council (NRC)
• Canadian Institutes of Health Research (CIHR)
• Natural Sciences and Engineering Research Council (NSERC)

Provincial Programs

• Ontario, Alberta and Québec

Other Organisations

• Killam Trusts
Canada: Committed to Research

Canada Research Chairs (CRC)

• National strategy to make Canada one of the world’s top countries for research and development

• Up to 2000 research professorships

• To date, 30% have been recruited from outside Canada.

• C$300 million a year to attract and retain world's most accomplished and promising minds. CRCs are tenable for 5-7 years.

www.chairs.gc.ca
Canada: Committed to Research

Canada Excellence Research Chairs (CERC)

- Aims to increase knowledge and innovation in areas of strategic importance
- Funds cover the total cost of research
- Up to 20 Chairs created (competitively awarded)
- Up to C$10M per CERC over 7 years

www.cerc.gc.ca
VANIER CANADA GRADUATE SCHOLARSHIPS

相似于价值和声誉，堪比美国的富布莱特奖学金、澳大利亚的Monash奖学金和英国的罗德奖学金。

$50,000加元/年，最多可持续三年。

候选人将被评估为学术卓越、研究潜力和领导能力。

加拿大和国际学生都有资格被提名。

候选人必须由他们在全职博士研究培训的加拿大大学提名。

www.vanier-cgs-bes.gc.ca
VANIER CANADA GRADUATE SCHOLARSHIPS
Examples of Successful Research Disciplines 2009/2010

**NSERC**
- Physics and Astronomy
- Computer Science
- Engineering (Mechanical, Chemical, Electrical)
- Earth Sciences
- Life Sciences
- Biomedical Engineering

**CIHR**
- Nutrition
- Population and Public Health
- Infection & Immunity Aging
- Circulatory and Respiratory Health
- Metabolism & Diabetes;
- Mental Health and Addiction
- Genetics
- Musculoskeletal Health and Arthritis

**SSHRC**
- Social Psychology;
- Archaeology;
- Medical/ Health Geography;
- Sociology;
- Music, Musicology;
- International Law;
- Macroeconomics;
- Management;
- Anthropology;
- Social/Cultural Geography;
- Health Economics;
- History;
- Literature;
- Education
BANTING POSTDOCTORAL FELLOWSHIPS

Open to Canadian and international researchers who have recently completed a PhD, PhD-equivalent or health professional degree.

70 fellowships awarded each year.

Two-year fellowship worth $70,000 per year (taxable)
BANTING POSTDOCTORAL FELLOWSHIPS

- Selection based on
  - research excellence and leadership in their area of expertise or research
  - quality of the applicant's proposed research program
  - institutional commitment and demonstrated synergy between applicant and institutional strategic priorities

- Applications to the Banting Postdoctoral Fellowships Program must be completed in full collaboration with the proposed Canadian host institution

- Deadline for complete application submission is November 3

www.banting.fellowships-bourses.gc.ca
NRC Research Council
• Government of Canada’s premier organization for research and development

• Over 20 NRC research institutes and technology centres

• Five key areas: Life Sciences, Physical Sciences, Engineering, Technology and Industry Support, Corporate Services

NRC Research Associate Program
• Apply online at anytime

Fellowships

- Open to Canadians and citizens of other countries.
- Must hold a PhD or professional health degree (or equivalent).
- Max. amount is $60,000 per annum for 5 years.
- General criteria for evaluating training award applications:
  - Achievements and Activities of the Candidate
  - Characteristics and Abilities of the Candidate
  - Research Training Environment

Deadline: 1 February 2011

www.cihr.ca
Visiting Fellowships in Canadian Government Laboratories

- Recent doctoral graduates of any nationality

- Work with research groups in Canadian government departments and agencies, including:
  - Agriculture, Conservation, Environment, Fisheries and Oceans, Food Inspection, Health, Industry, Defence, Natural Resources, Parks, etc.

- Up to 3 years at approx. $46,000 per year

- 150 fellowships offered each year (varies)

- 1/3 of fellowships awarded to foreign applicants.

www.nserc.ca
Funding for collaborative international research with Canadian Institutes of Health Research (CIHR)

- Open Operating Grants Program (OOGP)
- Meeting, Planning and Dissemination (MPD) Grants
- Emerging Team and Team Grants
- Catalyst Grants
  - Supports preliminary or new areas of investigation
- Partnership for Health System Improvement
  - Aims to strengthen Canada's healthcare system through collaborative, applied and policy-relevant research

www.cihr.ca
Discovery Grants (DG) – Group Projects
- Funds ongoing programs of research with long-term goals
- Grants are for 1-5 years
- Average grant C$32,000 per year (up to C$200,000 per year)

Collaborative Health Research Projects
- Funds collaborative research in natural sciences/engineering AND the health sciences
- Aimed at advancing knowledge and technologies to improve health outcomes
- Awards are for up to 3 years

NSERC Condition: Foreign researchers not holding an academic appointment at an eligible Canadian uni/college must apply as collaborators not co-applicants.

www.nserc.ca
Collaborative Research and Training Experience (CREATE) Program

• Supports the training of teams of highly qualified students and postdoctoral fellows from Canada and abroad.
• Allows an opportunity for foreign students to visit Canadian labs as part of the training program for up to 125 days.
• At least 60 percent of the CREATE funding will be directed to the following priority areas:
  ➢ Environmental science and technologies;
  ➢ Natural resources and energy;
  ➢ Health and related life sciences and technologies; and
  ➢ Information and communications technologies.
Ontario: International Strategic Opportunities Program

- Funds strategic international collaboration between Ontario research institutions and the global research community.

www.mri.gov.on.ca

Alberta Innovates- Health Solutions

- Supports biomedical and health research in Alberta
- Visiting researchers (including visiting lectureships/ professorships, visiting scientists and experts for conferences/symposia)
- Interdisciplinary Team Research Grants

www.albertainnovates.ca
Alberta Innovates-Technology Futures

- Provides leadership and strategic investments in research and science and technology initiatives
- Priority areas:
  - ICT, nanotechnology, and genomics
  
  www.albertainnovates.ca

Québec: Assistance for international research and innovation initiatives

- Aims to support the linkage and visibility of Québec research and innovation with international initiatives.
- Financial assistance varies by type of activity;
- maximum 50% of project costs.

www.mdeie.gouv.qc.ca
IZAAK WALTON KILLAM MEMORIAL SCHOLARSHIPS

Many generous awards available from the Killam Trust.

Offered by four Canadian universities

- Dalhousie University
- University of Alberta
- University of British Columbia
- University of Calgary

The application process and amount of awards vary by university

Open to all disciplines with no citizenship restrictions

www.killamtrusts.ca.
SCHOLARSHIPS FOR NON-CANADIANS

http://www.scholarships.gc.ca/
ONLINE RESOURCES

Official Canadian Government Study in Canada portal

✨ www.educationau-incanada.ca

Program finder, cost calculator and study permits information
Links to provincial, territorial and individual school information.

Information on Canadian Scholarships for international students

✨ www.scholarships.gc.ca
✨ www.destineducation.ca

Information on Work and Study Visas

✨ www.cic.gc.ca
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