

LIFE SCIENCES INDUSTRY IN CANADA

Canada has emerged as a centre of discovery, development and commercialization for innovative life sciences and health care solutions.

HIGHLIGHTS AND GROWTH OPPORTUNITIES

The world's ten largest biopharmaceutical companies are in Canada, most with research and development (R&D) and manufacturing operations. Canada is also the world's 10th largest pharmaceuticals market.¹

Biopharmaceuticals sector strengths:

- A health-research network increasingly commercially-oriented, providing value and advantages in infrastructure to firms securing partnerships
- A pharmaceutical and biotechnology sector spanning the industry's spectrum, operating at all levels of the value chain, from basic R&D and innovation to product development and contract services

Medical devices and digital imaging sector strengths:

- Medical imaging, such as In-Vitro diagnostics, picture archiving and communications systems (PACS)
- Wireless and mobile health
- Robotic surgery and surgical simulation
- Cardiovascular devices
- Wearables, assistive and rehabilitative devices

\$9.97B

Annual **pharmaceutical
manufacturing production**
in 2017.

Source: Statistics Canada, 2018

44%

**Increase in pharmaceutical
exports** from 2001 to 2017.

Source: Global Affairs Canada, 2018

\$27.3B

In pharmaceutical sales in 2017.

Source: Patented Medicine Prices Review Board (PMPRB), 2017

#1

Among G7 countries for
available engineers.

Source: Global Affairs Canada, 2018

#2

Ontario's innovation corridor
is the 2nd largest in the world.

Source: The Corridor, Toronto-Waterloo Region



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PROGRAMS AND INCENTIVES

- **Genome Canada** provides large-scale investments that develop new technologies, and create solutions
- **Canadian Institutes of Health Research (CIHR)** is a funding agency composed of 13 institutes that collaborate with partners and researchers to support innovation.
- **Canada Foundation for Innovation (CFI)** funds infrastructure to strengthen the capacity of Canadian universities, colleges, research hospitals, and non-profit research institutions to carry out world-class research.
- **The Canada Brain Research Fund (CRF)** is a public-private partnership designed to fund Canadian brain science research to advance knowledge and understanding of the brain and brain disorders.
- **National Research Council (NRC)** is Canada's premier research organization. It is working with a private partner to develop new therapeutic models that could lead to improved treatments in the future and better outcomes for patients suffering from brain disease.²
- **The Digital Technology Supercluster**, an industry-led consortium, funds data-driven and digital innovations transforming life sciences and manufacturing of pharmaceuticals.

Canada has exceptional institutions leading innovation:

- **The Medical Image Analysis Lab (MIAL)** at Simon Fraser University, British Columbia, is developing new techniques for image analysis of brain structures.

- **The Montreal Diabetes Research Centre** in Montreal, Quebec, coordinates new technologies for better diagnostic tools and treatments for diabetes.
- **The Brain Repair Centre** in Halifax, Nova Scotia, develops technology that will prevent, repair and reverse damage to brain cells.
- **IBM** has partnered with the University of Ontario Institute of Technology and Toronto's Hospital for

Sick Children on advanced analytic platforms to predict when a hospitalized baby is at risk of life-threatening infection.

RECENT LIFE SCIENCES INVESTMENT ANNOUNCEMENTS

Sanofi Pasteur (France) is investing \$500 million in a new vaccine facility in Toronto to produce antigens used in diphtheria and tetanus vaccines. The new facility will be operational in 2021.³

Bayer AG (Germany) and Versant Ventures (USA) invested \$292 million to create BlueRock Therapeutics in 2016, a stem cell therapy company in Toronto, Ontario.⁴

Jubilant Medical Devices (India) announced in 2018 it is investing \$100 million to expand operations in medical devices manufacturing facility in Kirkland, Quebec.⁵

Ypsomed (Switzerland) established a new subsidiary in Pointe-Claire, Quebec in 2018, to capitalize on growth opportunities for its diabetes-treatment products.⁶

NOTABLE COMPANIES



CONTACT

Invest in Canada is an investment promotion agency aimed at helping global companies like yours secure the best opportunities in Canada. Contact us to speak with a dedicated advisor.

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¹ Pharmaceutical industry profile, Innovation, Science and Economic Development Canada, 2018
² The National Research Council of Canada and Aspect Biosystems work toward new ways to deliver therapeutics to the brain, the holy grail of biopharmaceutical sciences, National Research Council Canada, February 2019
³ Sanofi to invest 350 million Euros in Canadian vaccine facility, Sanofi Pasteur, April 2018
⁴ BlueRock Therapeutics: Ontario's home-grown stem cell contender, Pharmaceutical Technology, March 2017
⁵ India companies to invest millions into Canada, creating 5,800 jobs, Global News, February 2018
⁶ Ypsomed expands to more countries, Ypsomed Selfcare Solutions, March 2018



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