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 commerciallyoriented, 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

Programs and incentives

Genome Canada provides large-scale investments that develop new technologies, and create solutions.





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- 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 nonprofit research institutions to carry out world-class research.
- The Canada Brain Research Fund (CRF) is a publicprivate 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. Ouebec, 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 lifethreatening infection.

Recent life sciences investments

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 based 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





















SIEMENS







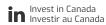


CONTACT

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Pharmaceutical industry profile, Innovation, Science and Economic Development Canada, 2018

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

Bayer and Versant Ventures, Join Forces to Launch Stem Cell Therapy Company BlueRock Therapeutics with USD 225

Million Series A Financing, BlueRock Therapeutics, 2016

India companies to invest millions into Canada, creating 5,800 jobs, Global News, February 2018

*Yopomed expands to more countries, Yopomed Selfcare Solutions, March 2011