

Research Infrastructure



Saskatchewan has a wealth of research and development infrastructure, especially in biotechnology, crop production and processing.

Why Saskatchewan?

- Saskatchewan is a leading centre of conventional agricultural research and biotechnology in Canada
- Home to two renowned research universities, three research parks and numerous research and training institutions
- The province is home to more than 700 research scientists working in 30 private, public and academic facilities
- Saskatchewan has strong research institutions, which are an asset for industry development
- The province's R&D infrastructure is especially strong in crop production and processing
- Saskatchewan has over 40% of Canada's agricultural land
- A renowned biotechnology and agri-food sector and global linkages with partners around the world
- World's top exporter of lentils, dried peas, oats and flax
- Supplier of a third of the world's durum wheat
- Exporter of almost one-quarter of the world's canola meal and one-fifth of the world's canola oil
- Supplier of almost 40% of the world's potash, mainly for crop nutrient use
- A strong track record of agriculture research with positive results, such as low- or no-till agriculture

Our Competitive Edge

- The University of Saskatchewan offers a full range of health science colleges, all with intensive research programs and a teaching hospital.
- The Vaccine and Infectious Disease Organization – International Vaccine Centre (VIDO-InterVac) is a world leader in developing human and animal vaccines and technologies against infectious diseases. VIDO-InterVac's cutting-edge technology and facilities provide unparalleled opportunities for research.
- The Canadian Light Source (CLS) is Canada's only synchrotron and one of the two most powerful in North America. The CLS allows scientists to explore the structural and chemical properties of materials at the molecular level.
- The Saskatchewan Centre for Cyclotron Sciences supplies radioisotopes for medical scans as well as for research, from exploring new cancer treatments to developing new crops.
- The Saskatchewan Structural Sciences Centre (SSSC) is a multidisciplinary research centre that complements the CLS and is operated by researchers whose expertise includes synchrotron science, biophysical chemistry, magnetic resonance spectroscopy and laser technology.
- The University of Regina supports the growth of knowledge industries in Regina – the provincial capital – which has the fifth highest concentration of information technology professionals, as a percentage of labour force, in Canada.



Saskatchewan is one of the world's leading food-processing regions and a hub for food system-related research.

Innovation and Opportunity

- **Innovation Place Saskatoon**, one of North America's most advanced research parks, provides facilities and services on a commercial basis to pharmaceutical, environmental and agricultural industries.
- **Innovation Place Regina** is one of Canada's newest R&D parks, with a focus on the natural resource and environmental sectors and information technologies.
- The **Petroleum Technology Research Centre (PTRC)**, located at Innovation Place Regina, is a focal point of petroleum research to develop enhanced discovery and recovery methods to realize more production potential of oil and gas resources.
- The **Greenhouse Gas Technology Centre**, also at Innovation Place Regina, provides strength in climate change technology development by equipping and enabling leading-edge research on greenhouse gas emissions, capture and containment.
- The **International Test Centre for CO₂ Capture** is a one-of-a-kind facility that will spur the development of innovative carbon dioxide capture techniques to decrease the amount released into the atmosphere and pave the way for new CO₂ storage methods and industrial uses for the gas. The centre is developing innovative technical solutions to economically capture carbon dioxide from industrial gas streams and to store and use this gas for enhanced oil recovery (EOR).
- The **National Research Council's Centre for Sustainable Infrastructure Research** is striving to become a national centre for environmental infrastructure management, research and innovation. It will develop, demonstrate and commercialize technologies and management practices for sustainable communities. The City of Regina has become a "community environmental laboratory" to test and assess the applicability of existing, new and emerging technologies and applications to sustainable community development.
- Saskatchewan is Canada's agricultural genomics centre. Advanced genomics research is being carried out in a number of research organizations in Saskatoon.
- The **Saskatchewan Research Council** operates a state-of-the-art pilot fermentation facility, which is made commercially available to industry.
- The **Plant Biotechnology Institute** hosted by the National Research Council is a leader in the modification of canola, oilseeds, cereals and grain legumes. Current research includes work in platform technologies including genomics and proteomics.
- The Government of Saskatchewan, the University of Saskatchewan and PotashCorp collaborated to create the **Global Institute for Food Security (GIFS)**. This innovative public-private partnership will apply Saskatchewan's unique resources, innovation and expertise to the global challenge of feeding a growing population.
- The **Saskatchewan Food Industry Development Centre Inc. (Food Centre)** is a non-profit organization that has established a reputable role in the food industry for R&D of new food concepts, interim processing, extrusion and food safety training. Since inception, the Food Centre has developed over 600 products with an estimated 50% introduced into the market. The Food Centre is expanding; it will build and equip a brand new innovative facility in Saskatoon in 2017.
- **TRLabs**, Canada's leading research consortium in information and communications technologies, conducts applied research in data networking, network access, network systems, photonics, wireless communications and new media at facilities at both Innovation Place Saskatoon and Regina.

Want to know more? Contact:

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