

Xerox Research Centre of Canada From Concept to Reality

Xerox innovation brings together many disciplines and technical competencies. Xerox is unique in this respect in that its research has spanned everything from basic physical sciences, mechanical and electrical engineering through to social science and psychology. Xerox's research and technology centers around the world each provide their own unique perspective.

The Xerox Research Centre of Canada (XRCC) is Xerox's materials research centre, enabling the flow of leading-edge imaging and consumable materials from research concepts to supplies solutions. XRCC leverages its core competencies in materials design, synthesis, characterization, evaluation and scale-up to deliver -- with partners -- environmentally sound materials and processes that support higher-quality and lower-cost color and monochrome products for both office and production markets.



Research

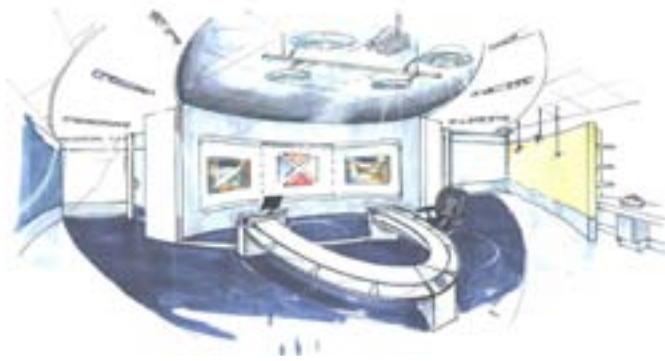
Specifically, XRCC conducts fundamental and applied materials research in [toners](#), [inks](#), [photoreceptors](#) and [specialty materials](#) to support xerographic and direct marking technologies. An example of its breakthrough research is a chemical toner called "EA Technology", an award winning technology which uses nanotechnology methodology and yields sharper image quality, higher reliability, reduced toner usage, faster warm-up time and an environmentally friendly manufacturing process. EA Technology was XRCC's first example in the commercialization of a nanotechnology based product.



Research in [printable organic electronic materials](#) is also being carried out to bridge the gap between paper and electronic documents. This research is also focused on the application of [nanotechnology](#).

Customer Led Innovation

XRCC is home to neXus, a state-of-the-art 2200 square foot interactive innovation facility. neXus, a partnership with Xerox Canada, is more than a simple showcase, it gives researchers and today's business leaders the opportunity to work collaboratively towards leveraging innovations to solve real business issues. At neXus, customers gain new insights into current and future technologies and are shown how Xerox innovations will provide a better way to do great work, ultimately resulting in improved business results.



Overview

XRCC was established in 1974 as an exploratory chemistry research centre for Xerox Corporation. The laboratory soon became an integral part of Xerox's research operations. By 1977, it was determined that XRCC's mission would be to research and develop strategic materials for Xerox worldwide.

In the early 1980's the Centre moved to its current site in the Sheridan Science and Technology Park in Mississauga. Today, XRCC's scientists and engineers work at the 120,000 square foot (11,000 m²) complex that includes state-of-the-art chemistry, chemical engineering, and physics laboratories and a 27,000 square foot (2,500 m²) chemical engineering pilot plant, where many of the strategic materials now manufactured by Xerox were originally scaled-up.

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A more recent addition is the 50,000 square foot (4,600 m²) Supplies Development Centre, operated by the Consumable Development and Management Group.

Since receiving its first patent in 1979, the Centre has received more than 1,400 U.S. patents, an impressive milestone that has attracted the interest of the Canadian



federal and provincial governments and the global research community.

With only 120 scientists and engineers, representing over 35 countries, the Xerox Research Centre of Canada generates approximately 130 to 150 patentable ideas per year. This has resulted in an average of 60 to 80 patents every year. In 2009, XRCC was awarded an impressive 111 patents; this is the first time XRCC has been awarded over 100 patents in one year. XRCC researchers have also authored over 1100 technical articles.

XRCC has received many awards both for its technical achievements and innovation as well as its diverse work environment. For example, XRCC efforts to help new immigrants leverage their technical skills in job placement were recognized in 2007 by an Immigrant Success Award for outstanding innovation and achievement in immigrant inclusive HR practices. In 2009, XRCC was recognized by Your Workplace Magazine as one of the Top 10 Places Where Employees Thrive Award.

XRCC researchers and technologists work closely with the Xerox Research Center Webster, the Xerox Palo Alto Research Center, the Xerox Research Centre Europe, Xerox's Supplies and Manufacturing organizations, the Business Groups, Fuji Xerox, and researchers at leading universities worldwide.

