

Green Materials

Promoting Sustainability

The Xerox Research Centre of Canada (XRCC) is committed to maximizing sustainability and environmental responsibility in all of our materials and processes. We can help you realize your green goals.



What We Offer

With many years of experience in the design of sustainable materials and processes, XRCC has a proven track record in optimizing synthetic pathways and chemical processes to minimize environmental impact.

GreenCentre Canada

XRCC's partnership with GreenCentre Canada, a leading sustainable-technology commercialization organization based in Kingston, Ontario was announced in 2014. Our team works closely with GreenCentre Canada, providing process engineering, scale-up, pilot testing, and developmental support to help accelerate the commercialization of materials science breakthroughs from GreenCentre and their clients.

Materials Expertise

- Bio-renewable reactants, catalysts, and solvents
- Recycled materials as feedstocks
- Long life materials
- Functional materials operating with low energy input
- Low energy particle synthesis

Process Technologies

- Solvent-free dispersion and polymerization processes
- Solvent-free reactions and electronic material purification
- Continuous-flow chemistry
- Sustainable purification technology

Green Materials and Processes at XRCC

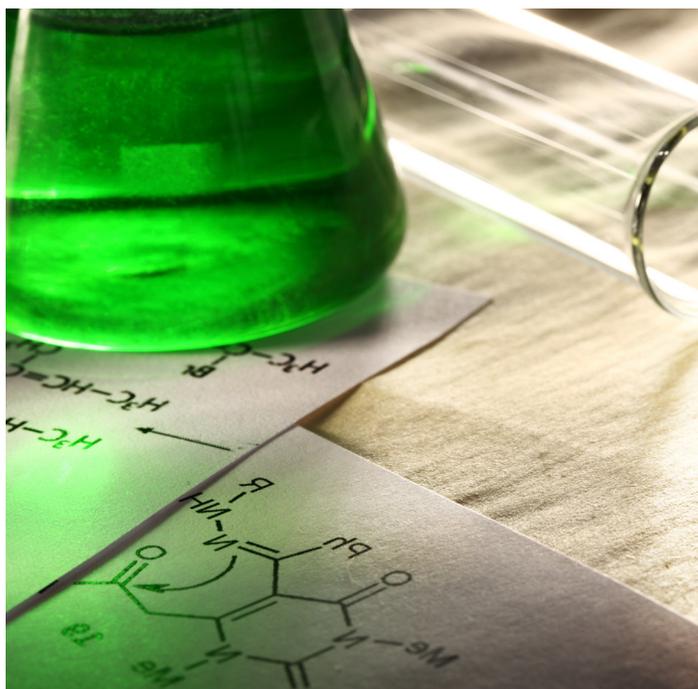
Resources

- Expertise of Chemists, Chemical Engineers, and Technologists
- Lab and Pilot Plant facilities from gram to multi-kilogram scale
- Model and machine shops for custom equipment and device fabrication
- Fully equipped analytical laboratories with access to major material and device characterization techniques

XRCC success stories

Xerox EA-Eco toner

EA-Eco is an ultra-low-melt toner designed for Xerox office and production printers. Its rounded shape and small particle size provide colourful, high-gloss images using 40% less toner per printed page than conventional toners, while its novel low-melt resin design reduces energy consumption in the printing process.



Xerox solid ink technology

Xerox wax-based solid ink comes in a cartridge-free format, reducing landfill waste by 90% compared to laser printing. The ink itself contains 30% bio-renewable materials.

Long life components

An XRCC-led re-design of the imaging drum coatings used in Xerox printers provided dramatically improved drum life, changing it from a consumable item to a life-of-machine component.

Our Commitment to you

We can help you develop your new green idea or minimize the environmental impact of your current material or process.

We employ Life Cycle Analysis to guide your designs and quantify sustainability improvements.

Our projects are administered using the Lean Six Sigma methodology, ensuring you receive the right data at the right time.

We will be your partner in bridging the gap from green idea to green product.

Engage Us

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