

# The NRC's Advanced Materials Research Facility

An innovation hub and a catalyst as a centre of excellence for the acceleration of material discovery and development in Mississauga, Ontario



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Home to the  
NRC's Critical Battery  
Materials Initiative,  
part of the Advanced  
Clean Energy program

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## Hosting collaborative R&D partnerships

- The Materials Acceleration Demonstration Ecosystem is a joint initiative with Natural Resources Canada, bringing together federal, academic and industry researchers to accelerate the discovery and development of new advanced materials as part of the Government of Canada's TerraCanada hub.
- The Collaboration Centre for Green Energy Materials with the University of Toronto aims to develop and demonstrate innovative materials and production processes for reducing the environmental impact of transformation, transmission and storage of energy.
- The collaboration with the University of Waterloo focuses on additive manufacturing materials and process optimization research.
- The collaboration with the University of Toronto's Acceleration Consortium supports material acceleration platform training and research.



Accelerated materials discovery and process optimization



Materials for electrocatalysis



Powder synthesis and modification



Smart materials for smart objects

**Supercharge your R&D with us! Accelerate your approach to innovation through the digitalization of R&D by deploying AI, robotics and automation**

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### Specialized capabilities

- Materials accelerated platforms (MAPs)
- Process accelerated platforms (PAPs)
- High-performance computing
- Artificial intelligence studio
- Mechatronics lab
- Advanced materials characterization
- Scaled-up powder synthesis, spheroidization and functionalization
- Design, simulation and digital fabrication
- End-to-end electrocatalytic materials from device to system development

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### Facility

- First-floor operations opened in April 2021
- Second- and third-floor operations opened in May 2024

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