

CINS

CANADIAN INSTITUTE FOR
NEUTRON SCATTERING

NEUTRONS ARE USED TO STUDY...



HEALTH AND LIFE SCIENCES

Cholesterol and vitamins in cells.
Protein structure and function.



NATURAL RESOURCES AND ENERGY

Supercapacitors for stable
clean energy. Hydrogen fuel
cell for greener cars.



INFORMATION TECHNOLOGIES

Spintronics for next-generation
computer memory. Exotic topological
materials for quantum computing.



ENVIRONMENT AND AGRICULTURE

Plant root growth in soil.
Railroad track failure analysis.



ADVANCED MANUFACTURING

New lightweight automotive alloys.
Non-destructive stress tests in
cast parts.

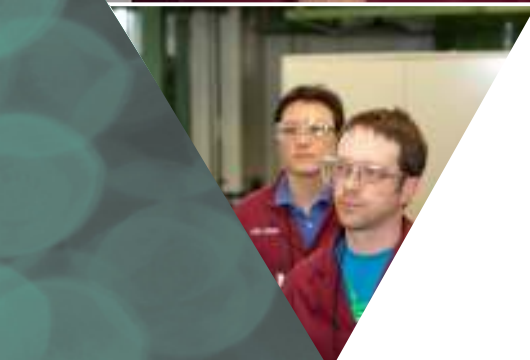
Discover Materials Research

Whether its helping to convert cars to
clean fuels, generating knowledge for
better health, or leading to tomorrow's
discoveries, materials research using
neutron beams makes an impact.

How Can I Use Neutron Beams?

CINS subject matter experts can
help you understand the process of
designing, applying for, and conducting
experiments at research facilities
around the world. Our global network
of collaborators can discuss with you
what goes into a successful experiment,
and help you navigate the process.





Neutron scattering is a versatile and powerful technique for research on materials of all kinds. Pioneered in Canada in the 1950s, neutron scattering continues to play a valuable role in Canadian science, allowing scientists to explore the structure and dynamics of materials down to atomic length scales. We are proud to continue the tradition of neutron scattering in Canada.

CINS EXISTS TO...

...**facilitate research** by Canadian scientists using neutron beams.

... establish **priorities for the development** of facilities for neutron scattering in Canada

... advocate for the provision of **adequate facilities and funding** for researchers using neutron beams.

...**co-ordinate proposals** for instrumentation and infrastructure for submission to granting agencies.




...**sponsor schools and workshops** that provide theoretical and practical training.

... to support **travel for scientists** located long distances from neutron facilities.

CANADIAN MEMBERS

-  240 individuals
-  40 Canadian institutions
-  8 Provinces

WORLDWIDE MEMBERS

-  130 individuals
-  70 foreign institutions
-  22 countries

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