A CANS for Canada: A future neutron source for Canada

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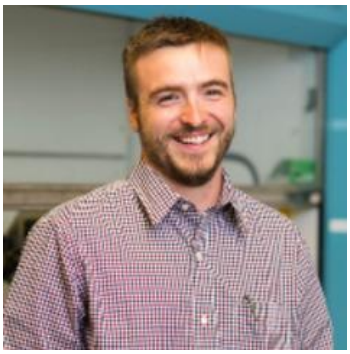

Neutron scattering has proven to be one of the most powerful methods for the investigation of structure and dynamics of condensed matter on atomic length and time scales. Neutron techniques have a broad range of applications in physics, chemistry, magnetism and superconductivity, material sciences, cultural heritage, biology, soft matter, health, and environmental and climate science. A prototype Canadian CANS (PC-CANS) is proposed to perform the first step towards a national Canadian CANS facility of a next generation CANS. This new source would be the first of its kind in Canada; a source designed by accelerator and material scientists and optimized for the specific investigation of condensed matter and materials and beam for applications like F-18 production for PET and Boron Neutron Capture Therapy (BNCT).

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