

Summary of Linkage Infrastructure, Equipment and Facilities Proposals

New South Wales

Australian Institute of Nuclear Science and Engineering (AINSE)

LE0989127 Dr D Mather; Prof G Kearley; Prof JD Gale; Prof GA Hope; Prof CJ Kepert; Dr JA Stride; Prof J Bartlett; Prof SX Dou; Dr DP Riley; Dr DJ Goossens; Dr C Yang

Approved Project Title **A High-Throughput Neutron Spectrometer for The Study of Atomic and Molecular Motion at ANSTO**

2009 : \$ 400,000

Primary RFCD 2402 THEORETICAL AND CONDENSED MATTER PHYSICS

Partner Organisations & Collaborating Organisations

Australian Institute of Nuclear Science and Engineering (AINSE)

The University of New South Wales

Griffith University

The University of Sydney

University of Wollongong

Curtin University of Technology

University of Western Sydney

Australian Nuclear Science & Technology Organisation (ANSTO)

The University of Melbourne

The Australian National University

Administering Organisation Australian Institute of Nuclear Science and Engineering (AINSE)

Project Summary

Neutron scattering enables new science across a broad range of disciplines, and for this reason it is undergoing major expansion in the USA, Europe, Japan and Australia. Various diffractometers and spectrometers have recently been built at ANSTO, but an instrumental option for a high-throughput cross-discipline spectroscopy is urgently needed. Fortunately, it is fairly straightforward to add this type of option to an existing spectrometer that will broaden its user-base from specialised applications in physics to more general applications in physics, chemistry, materials-science and biology. This additional option provides a totally new way for Australian scientists to study atomic and molecular motions.