

CXS

The Australian Research Council (ARC) Centre of Excellence for Coherent X-ray Science (CXS) brings together leading Australian researchers in the fields of physics, chemistry and biology. CXS is made up of scientists from the University of Melbourne, La Trobe University, Monash University, Swinburne University of Technology, Griffith University and the CSIRO.

WHY A PHD WITH CXS?

PhD students within CXS will acquire an unusually wide range of experience that will enable them to develop careers across a broad range of disciplines throughout physics, chemistry, biology and theoretical mathematics. CXS can help you achieve your goals and enhance your future career and life opportunities in Australia and overseas.

MODELLING PROJECT

We model electron-photon interactions in X-ray imaging experiments. This also involves the development of algorithms and techniques in the solution of inverse problems, non-linear atom-laser interaction physics and relativistic quantum mechanics.

Other projects include tests of quantum electrodynamics in the strong external field limit; parity and time-reversal violation in electronic systems; implementation of relativistic electronic structure models and their application to chemical and physical studies of atoms, molecules, clusters and solids containing heavy elements.

SCHOLARSHIPS ARE NOW AVAILABLE.

For more information or to discuss collaboration with our researchers please contact:
Dr Harry Quiney Email: quiney@unimelb.edu.au



Phone: 03 8344 5444

WWW.COECXS.ORG

RESEARCH OPPORTUNITIES

THEORY AND MODELLING PROGRAM
UNIVERSITY OF MELBOURNE