

## PhD Positions available

### High Harmonic Generation of Short Pulse XUV/X-ray Radiation for Coherent Diffractive Imaging

The openings are related to the development of a new state of the art facility for the generation of coherent XUV/X-ray radiation using ultra short high powered laser pulses. The research is being undertaken within the newly created Centre of Excellence for Coherence X-Ray Science (<http://www.coecxs.org/index.html>) which brings together groups from The University of Melbourne, Monash University, Swinburne University, La Trobe University and the CSIRO.

The ultimate aim of the research is to image non-crystalline membrane bound proteins. The focus of this research position is the generation of the XUV/X-rays to perform coherent diffractive imaging experiments. A new laser system is currently being installed at laboratories based at Swinburne University where much of the work will be carried out. There is also a possibility of conducting various experiments using microscopy to image membrane bound proteins in biological samples such as Malaria infected red blood cells.

Highly motivated and qualified candidates with a solid academic track record are invited to contact Ass. Prof Trevor Smith ([phdapps-uml@unimelb.edu.au](mailto:phdapps-uml@unimelb.edu.au)). Candidates are advised to include in their application a detailed curriculum vitae with a list of any publications and references as well as other information they judge useful for the first step of the evaluation process.

**Starting date:** Early 2007 and on (4 years project).

**Duration:** Variable depending on the type of the position.

**Other issues:** The evaluation criteria will be principally based on the scientific quality of the candidate in accordance with the needs of the project. Positions are open to candidates from around the world; the 'CXs Team' has a multidisciplinary and international character, while equal opportunities are guaranteed to both female and male candidates.