The Centre for Micro-Photonics (CMP) is an internationally leading centre in biophotonics and nanophotonics. It provides a wide-class laboratory for training Australia and international research students which supports photonic crystal fabrication, optical data storage, nanofabrication, solar cells and biophotonics. The vision of CMP is Nano and biophotonics for a sustainable future.

PhD opportunities are available in the following projects:

The Laureate Fellow project is focused on the development of nanoparticle based high performance and efficient optical data storage and display technologies. Incorporating nanoparticles into these devices can allow for the technologies to expand with society’s demand, whilst maintaining a small environmental footprint.

In Vivo Multiphoton Biophotonics integrates femtosecond laser technology, nonlinear microscopy laser technology, nonlinear microscopy techniques, fibre optics, nanoparticle technology, biology, gastrology, endoscopy, and imaging for the detection and treatment of human cancers.

The Centre for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS) project is a research consortium between six Australian universities and is funded through the Australia Research Council (ARC) Centre of Excellence (CoE) program. The aim is to achieving ultra-high-speed all-optical signal processing on a single photonics chip. The Swinburne node involves the use of 3D nano structures in plasmonic nano circuit.

The Smart Solar Innovations project is a collaborative research and development facility between the Centre for Micro-Photonics and international investment. Research will focus on developing the next generation in solar technology based on nanoplasmonic solar cells with the aim of dramatically increasing the efficiency of current photovoltaic cells.

Scholarships available:
Australian Solar Institute (ASI) is seeking applications for Postgraduate Scholarships. If finding the balance between research commitments and part-time work is a struggle, you may be eligible for an ASI PhD Scholarship. With three year funding, you will be able to focus on your research without the pressure of working part-time. For more information please visit the Australian Solar Institute scholarships website.

The Science and Industry Endowment Fund (SIEF) is seeking applications for its John Stocker Postgraduate Scholarships. This program includes 2 full Scholarships, commencing in 2013 over a three year period with preference for research in mathematics and engineering. For more information please visit the SIEF John Stocker Post-graduate Scholarships website.

These scholarships cover annual tuition fees for three years and tax free - $25000 per annual.

Application materials and contact details should be submitted to:
Professor Min Gu  T: +61 3 9214 5273  E: mgu@swin.edu.au
Ms. Amable Lou  T: +61 3 9214 8096  E: jlou@swin.edu.au

To apply, please visit: www.research.swinburne.edu.au/research-students/future/application/
For more information about the Centre for Micro-Photonics: www.swinburne.edu.au/cmp/