

PhD Opportunities at Swinburne, Melbourne, Australia.



The Centre for Atom Optics and Ultrafast Spectroscopy (CAOUS) is a vibrant team of 35 scientists, including 16 research students, dedicated to the pursuit of excellence in physics research. CAOUS hosts the nodes of two Australian Research Council Centres of Excellence, one in Quantum-Atom Optics (ACQAO) and the other in Coherent X-Ray Science (CXS).



CAOUS has nine superbly furnished laboratories bursting with state-of-the-art equipment used to perform cutting edge research in the following areas:

Bose-Einstein Condensates

High Harmonic X-ray Generation

Degenerate Fermi Gases

Femtosecond Laser Spectroscopy

Molecular Condensates

Femtosecond Laser Ablation

Atom Chips

Fibre Optic Sensors

Atom Interferometry

SERS Spectroscopy

Quantum Optics Theory

Slow Light (EIT/EIA)

The CAOUS laboratories are located at the Swinburne University of Technology Hawthorn Campus, just 7km east from the centre of beautiful Melbourne, the cultural capital of Australia.

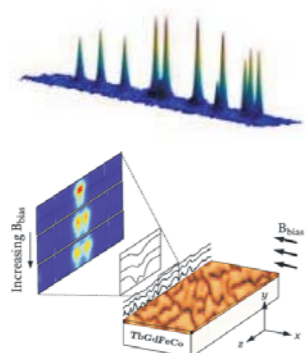
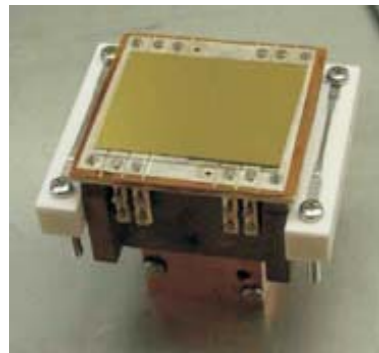
PhD, MSc, Hons and Diplomas are available at Swinburne, Melbourne. Generous scholarships for academically strong and motivated students. Student fees are waived for international postgraduate applicants.

Each postgraduate student is supplied with their own modern computer in a stylish and comfortable office. Students are well supported for travel to national and international workshops/conferences. In addition support will be provided to exceptional students to gain international experience for periods up to 3 months in leading overseas laboratories.

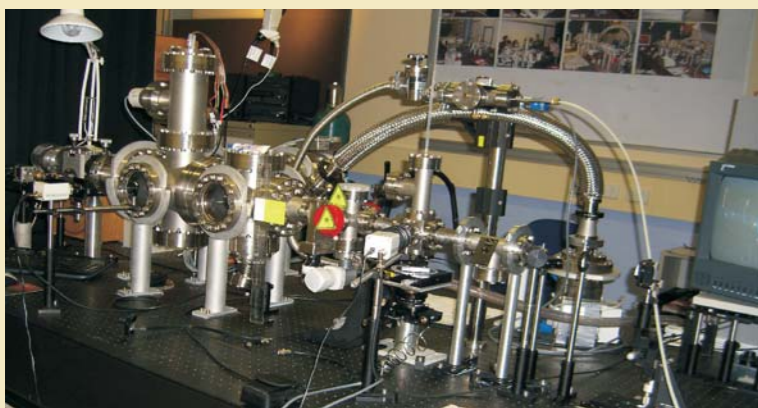
Projects descriptions are now available on the new CAOUS website.

<http://www.swinburne.edu.au/caous/>

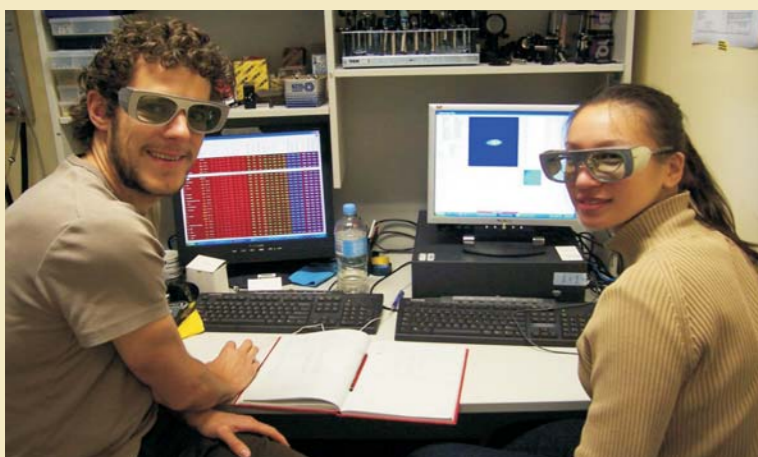
Further information can be obtained from the CAOUS postgraduate recruitment officer: brhall@swin.edu.au or faxing the following number: +61 3 9214 5160.



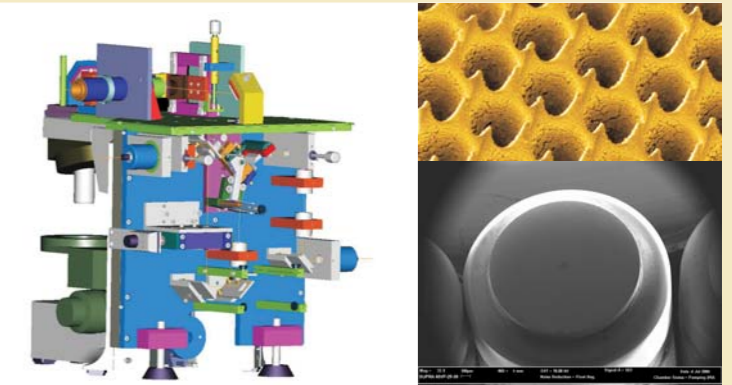
Magnetic film atom chip, condensate array and double well sensor



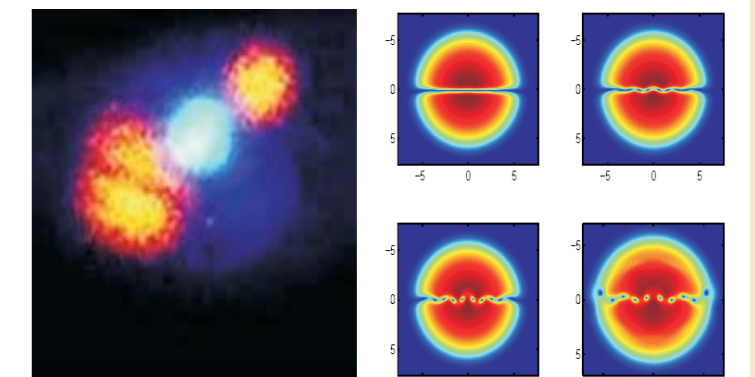
HHG vacuum system for generating extreme UV and soft x-rays



PhD students Jurgen and Eva in the Molecular BEC laboratory



A Horiba Jobin-Yvon Raman microscope : SEM images of etched optical fibre



Generation of coherent blue light : Theory of soliton formation in BEC



Optics and lasers from one of the atom chip BEC experiments