

# UNSW@ADFA

## CANBERRA • AUSTRALIA

Applications close **9.00am Monday 14<sup>th</sup> December 2009.**

**PhD SCHOLARSHIPS FUNDED BY THE ARC  
CO2 SEQUESTRATION RESEARCH  
School of Engineering and Information Technology, UNSW at ADFA, Canberra  
School of Civil and Environmental Engineering, UNSW, Sydney  
\$26,669 to \$38,669 pa for three years**

A highly interdisciplinary engineering and scientific research project is now underway at two campuses of The University of New South Wales, on the sequestration of CO<sub>2</sub> in deep geological formations, funded by an ARC Discovery Project grant. The project will examine the couplings between supercritical CO<sub>2</sub> injection and porous/fractured solid mechanics, multiphase fluid mechanics, energetics and chemical thermodynamics, both experimentally and numerically.

An exciting opportunity exists for three high calibre PhD students to join this innovative research project, in three interconnected topics:

1. One PhD project on chemical thermodynamics modelling, suitable for a student with a good honours degree in Chemistry, Chemical Engineering, Petroleum Engineering, Physics or related field;
2. One PhD project on experimental multiphase poromechanics, suitable for a student with a good honours degree in Civil Engineering, Chemical Engineering, Petroleum Engineering, Mechanical Engineering or related field;
3. One PhD project in constitutive modelling, suitable for a student with a good honours degree in Civil Engineering, Mechanical Engineering, Physics or related field.

It is proposed that the first project be based at the UNSW at ADFA Canberra campus, and the other two projects at the UNSW Sydney campus. The scholarships will be funded at \$26,669 per annum (tax free). An additional Supplementary Engineering Award (SEA) of \$8,000 (taxable) per annum at UNSW Sydney, or a School Supplementary Award (SSA) of up to \$12,000 (taxable) per annum at UNSW at ADFA, may be offered to exceptional candidates (conditions apply).

The scholarships are available to Australian or New Zealand citizens, or permanent residents, to support full-time PhD research study for three years, commencing 1 January 2010. The offers are for one year in the first instance, with good prospects of renewal for a further two years, subject to satisfactory progress.

For further details regarding the projects please contact Dr Robert Niven on (02) 6268 8330, email [r.niven@adfa.edu.au](mailto:r.niven@adfa.edu.au) for UNSW@ADFA Canberra and/or Prof. Nasser Khalili on (02) 9385 5074, email [n.khalili@unsw.edu.au](mailto:n.khalili@unsw.edu.au) for UNSW Sydney.