POSTDOCTORAL RESEARCH ASSOCIATE - IN-SITU DEFORMATION TEM
FACULTY OF ENGINEERING
SCHOOL OF AEROSPACE, MECHANICAL AND MECHATRONIC ENGINEERING
REFERENCE NO. 1995/1111

- Well established faculty
- Cutting-edge research
- Work with internationally renowned academics

The University of Sydney is Australia's premier University with an outstanding global reputation for academic and research excellence, and employs over 7500 permanent staff supporting over 49,000 students.

The School of Aerospace, Mechanical and Mechatronic Engineering is one of Australia's premier engineering schools and has a reputation for the quality of its graduates, for the breadth, depth and innovation in its undergraduate curriculum and for the strength of its research and postgraduate teaching programs. The school is a major component of the Faculty of Engineering and IT and for more information please visit: AMME

We currently seek a Postdoctoral Research Associate to work on an ARC funded project. This project aims to apply state-of-the-art in-situ deformation transmission electron microscopy techniques to reveal how crystalline defects in nanostructured metals and alloys interact with each other and to link directly the interactions with the mechanical behaviour of the materials. The results will enable structural design of advanced metallic materials with optimum mechanical properties.

This is an opportunity to work closely with Associate Professor Xiaozhou Liao and conduct research at the Centre for Advanced Materials Technology (CAMT) within the school. You will be part of a school which has a high international profile for its quality research over a wide field in materials characterisation and processing, nanotechnology, advanced manufacturing, solid mechanics and biotechnology.

Having completed a PhD in Material Science (or relevant area), you will have extensive experience in transmission electron microscopy (TEM) with a solid background and understanding in the structure and mechanical properties of materials.

The project will bring a cutting-edge technique to Australian science that adds an important arm to our already prominent research strengths in materials science, and will provide Australian scientists greater capability to understand and design advanced materials.

The position is full-time fixed-term for three years subject to completion of a satisfactory probation and confirmation period for new appointees. Membership of a University approved superannuation scheme is a condition of appointment.

Remuneration package: approx. $92K p.a. (including Level A6 base salary, leave loading and 17% employer's contribution to superannuation). Some assistance towards relocation cost and visa sponsorship will be available if required.

All applications must be submitted via the University of Sydney careers website. Visit sydney.edu.au/positions and search by the reference number for more information and to apply.

CLOSING DATE: 14 February 2012 (11:30pm Sydney time) or until a successful individual has been identified.

The University is an Equal Opportunity employer committed to equity, diversity and social inclusion.