

## **ARC Centres of Excellence Program**

### **ARC Centre for Functional Nanomaterials**

**Interim Director: Professor GM Lu**

**Collaborating Institutions:** The University of Queensland  
The Australian National University  
The University of New South Wales  
CSIRO Petroleum  
University of Western Sydney  
CSIRO - Manufacturing Science and Technology  
CSIRO – Molecular Science  
CSIRO – Telecommunication and Industrial Physics  
IBM Almaden Research Centre  
Washington University in St Louis

Cutting-edge nanoscience is distinguished by the degree of understanding, deliberate control and precision that new nanostructuring techniques afford. Instead of discovering new materials by serendipity and trial-and-error, nanoscientists can now design novel materials in a systematic way, tailoring the materials to have desired functionalities and properties.

The Centre aims to be an international leader in nanomaterials research, undertaking fundamental and applied investigations of the synthesis, characterisation and application of various nanomaterials, and providing first-rate research and professional training. The research program will focus on functional nanomaterials such as nanoparticles, nanotubes, thin films, and nanoporous and nanocomposite materials that are designed to serve as catalysts, sensors and absorbents. The Centre has established the extensive support of Australian and international industries that may participate in the commercialisation of its innovations.