

Summary of Linkage Infrastructure Applications for Funding to Commence in 2006

New South Wales

University of Technology, Sydney

LE0668467 Prof LC Botten; Prof RC McPhedran; Prof L Radom; Prof CM Stampfl; Dr RJ Bursill; Prof E Leonardi; A/Prof RS Womersley; Prof AJ Pitman; A/Prof TR Marchant; A/Prof MJ Ford

Approved Project Title **A large memory, high performance computing system for the ac3 Research Consortium**

2006 : \$620,000

Primary RFCD 2506 THEORETICAL AND COMPUTATIONAL CHEMISTRY

Partner Organisation(s)

University of Technology, Sydney
The University of Sydney
The University of New South Wales
Macquarie University
University of Wollongong
ac3

Administering Institution University of Technology, Sydney

Project Summary

The installation of this new supercomputing facility is an important addition to the nation's foundation research infrastructure, and a further key system in the national computational grid. Of particular importance to research groups in NSW is the much needed boost in computational research and research training capacity that it will provide, enabling world leading research teams to continue their ground breaking work in what is an increasingly competitive international environment. Much of the research to be supported lies in areas of national priority, including frontier technologies and Australian environmental sustainability.

LE0668368 Prof AS Mowbray; Prof GW Greenleaf

Approved Project Title **AustLII's expanding legal research facilities: the innovation engine for development of Commonwealth, common law and Asian legal information infrastructure**

2006 : \$650,000

Primary RFCD 2801 INFORMATION SYSTEMS

Partner Organisation(s)

University of Technology, Sydney
University of New South Wales
Mallesons and other Law Firms
Counsel's Chambers Ltd and other Bar Organisations
Defence Legal
Department of Foreign Affairs and Trade
Administrative Appeals Tribunal
Migration Review Tribunal
Refugee Review Tribunal
Federal Magistrates Court
Supreme Court of Tasmania
National Native Title Tribunal
Griffith Hack and other Patent Attorneys
Takeovers Panel and other Boards and Tribunals
South Australian Industrial Relations Court
CCH Australia Ltd
Attorney-General's Department (Commonwealth)
Australian Law Reform Commission
Consumer, Trader and Tenancy Tribunal of New South Wales
Sun Microsystems

Administering Institution University of Technology, Sydney

Project Summary

The administration of justice and all Australian legal researchers will benefit from the expanded legal databases, more sophisticated interconnections, quality and reliability of Australia's free-access national legal research infrastructure, AustLII (Australasian Legal Information Institute). Access by Australian researchers to high quality international legal information will benefit from AustLII's continuing leadership of the global consortium of free-access legal information providers via its operation of the World Legal Information Institute (WorldLII) and creation of new Commonwealth and Asian components of that network. Australia's interests are furthered by increased transparency of regional legal systems.

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LE0668541 Prof HT Nguyen; A/Prof NH Lovell; Prof A Craig; Dr PA Watterson; A/Prof AM Sanagavarapu; Dr LA Poole-Warren; Dr S Dokos; A/Prof CD McFarland

Approved Project Title Infrastructure for design and testing of implantable and non-invasive intelligent medical devices

2006 : \$260,000

Primary RFCD 2915 BIOMEDICAL ENGINEERING

Partner Organisation(s)

University of Technology, Sydney

The University of New South Wales

Administering Institution University of Technology, Sydney

Project Summary

This application requests infrastructure funding to ensure the capability of the UTS and UNSW biomedical engineering teams to develop tomorrow's biomedical devices. It will enable research in the field of intelligent medical devices, either non-invasive devices (diabetes monitoring, brain-computer interfaces, home telecare) or those which are fully implanted (heart pumps, bionic eyes). Such biomedical devices will save lives and improve the quality of life of many people. The commercial benefit to Australia flows from the international export of such devices. Based on this approach there will be substantial savings in health care costs, with patients able to resume a better quality of life at home, rather than in institutional care.