

Summary of Linkage Projects Proposals for Funding to Commence in 2009

Victoria

RMIT University

LP0989756 A/Prof P Bertok; Prof Z Tari; Prof LM Batten

Approved Project Title **Privacy-Preserving Remote Access to Health Information Infrastructure in Ubiquitous Computing Environments**

2009 : \$ 90,000

2010 : \$ 85,000

2011 : \$ 80,000

Primary RFCD 2801 INFORMATION SYSTEMS

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Northern Health

Administering Organisation RMIT University

Project Summary

The project's benefits can be summarised as follows. (a) The project will provide new solutions that enable remote access to health-care data in a secure and privacy-preserving manner. (b) This will improve health care services in northern metropolitan Melbourne, and provide shorter medical response time, which is particularly important in emergency scenarios. (c) It will exemplify advanced IT support for health care, which can be utilised by other providers. (d) The project will make a direct link between IT research and its industrial application. (e) The project will also give the opportunity to a postdoctoral researcher and PhD students to perform leading edge research on privacy protection of information in an industrial environment.

LP0989314 Prof JF Fien; Prof AE Gough; Dr JR Guevara; Dr LK Wheeler; Dr JM Smith; Ms R Black; Mr E Bottomley; Mr GM Hunt; Ms J Liefman; Dr PR Weldon

Approved Project Title **Developing Effective School-Community Learning Partnerships for Sustainability**

2009 : \$ 46,552

2010 : \$ 49,090

2011 : \$ 51,888

Primary RFCD 3701 SOCIOLOGY

Collaborating/Partner Organisation(s)

Sustainability Victoria

Education Foundation Australia

Western Port Greenhouse Alliance

Association of Independent Schools Victoria

Shire of Yarra Ranges Council

Centre for Education and Research in Environmental Strategies (CERES)

Administering Organisation RMIT University

Project Summary

The research contributes to 2 areas of national concern: achieving environmental sustainability and strengthening social cohesion, especially in the expanding urban growth corridors of Australian cities. It will develop guidelines for facilitating models of community learning partnerships that build social capital as a vehicle for protecting natural capital. Knowledge generated will advance conservation practices for natural capital: water, energy, biodiversity and waste, and strengthen the school-community partnership elements of programs such as ResourceSmart and the Australian Sustainable Schools Initiative (AuSSI), supported extensively by networks of local, State and Commonwealth governments, schools and community groups.

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LP0989245 Dr E McKay; Dr JF Izard

Approved Project Title **An Intelligent Software-AGENT: Innovates Adaptive Workplace eTraining Tools**

2009 : \$ 26,140

2010 : \$ 26,140

2011 : \$ 26,140

Primary RFCD 2801 INFORMATION SYSTEMS

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Government Skills Australia

Neteffective Media Group

Administering Organisation RMIT University

Project Summary

Maintaining well skilled and knowledgeable employees is key to sustaining our competitive advantage through smarter information use of digital technologies. By reviewing current government training practice and IT governance, the Project Team will share valuable insight enabling multi-disciplinary collaboration for effective information systems development. Access to our individual virtual learning space is critical; this Project places Australia at the centre of virtual reality and emerging Web 2.0 technologies in the race to empower the global reach of an individual's access to adaptable eLearning tools and the unyielding intellectual thirst for new learning spaces for the next decade.

LP0989452 Prof JY Tu; Mr K Inthavong; Dr WW Yang; Prof Q Chen

Approved Project Title **Characterisation of Wood Dust Exposures and Its Effects on Respiratory Health**

2009 : \$ 78,591

2010 : \$ 78,591

2011 : \$ 78,591

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

APDI Mr K Inthavong

Collaborating/Partner Organisation(s)

Airlinx Heating & Cooling Supply Pty. Ltd.

D & E Air Conditioning Pty Ltd

The Peninsula Woodturners Guild Incorporated

Administering Organisation RMIT University

Project Summary

In Australia, the wood processing industry is the second largest manufacturing industry employing around 115,000 people. Exposure and inhalation of wood dust can cause serious health effects in the human respiratory systems and considerable medical costs of over hundreds million dollars per year directly and indirectly. This project aims to undertake a comprehensive research study through the characterisation of wood dust exposures, development of predictive models for health risk assessment and optimisation of ventilation systems. The outcomes of this research may lead to improved preventative measures, reducing occupational diseases thereby cutting the socio-economic burden on the Australian community.

Summary of Linkage Projects Proposals for Funding to Commence in 2009

LP0989424 Prof Y Xie

Approved Project Title **Optimisation of Building Structures Considering Wind Loading**

2009 : \$ 74,000

2010 : \$ 81,000

2011 : \$ 88,000

Primary RFCD 2908 CIVIL ENGINEERING

Collaborating/Partner Organisation(s)

Felicetti Pty. Ltd.

Administering Organisation RMIT University

Project Summary

Wind loading is a dominant factor that should be carefully considered and resourcefully exploited in the design of building structures. The ever-taller buildings proposed around the world have presented a major challenge and opportunity in the pursuit of new techniques and materials. The proposed research will improve the competitiveness and productivity of the Australian building design industry by establishing a cutting-edge computer-automated design tool for creating innovative building systems that can resist wind loading effectively and efficiently. The developed technology will result in significant enhancement of the performance and safety of buildings, and substantial reduction of construction materials and costs.