

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

Queensland

Queensland University of Technology

LP100200056 Dr John A Banks, Prof Stuart D Cunningham, Dr Jason D Potts, Dr Nicholas D Herd, Mr Ronald B Feeney, Dr Karen R Pearlman

Approved Project Title **The games and the wider interactive entertainment industry in Australia: an inquiry into sources of innovation**

2010	\$38,000.00
2011	\$68,500.00
2012	\$48,500.00
2013	\$18,000.00
2014	
2015	

Primary FoR 2001 COMMUNICATION AND MEDIA STUDIES

Partner/Collaborating Organisation(s)

Australia Council for the Arts, Australian Film Television and Radio School, DR D STUDIOS PTY LIMITED, Firemint Pty Ltd , Halfbrick Studios Pty Ltd , HOODLUM ENTERTAINMENT PTY LTD, INFINITE INTERACTIVE PTY. LTD, KROME STUDIOS PTY LTD, Tantalus Media Pty Ltd

Administering Organisation Queensland University of Technology

Project Summary

Games and interactive entertainment are flagship digital industries of the present and future which no advanced economy and digitally enabled society can afford not to engage with. Apart from their evident popularity, and proven growth and export potential, they have provided many models and templates for educational technology. The project will assist the local games and interactive entertainment sector to source international good practice models, to identify potentially new sources of innovation, such as arts practices not traditionally associated with these industries, and contribute a richly detailed case study providing evidence for why the creative industries should be an integral part of the national innovation system.

LP100200723 Prof Donna C Berthelsen, A/Prof Jan M Nicholson, Ms Kate E Williams, Ms Vicky S Abad

Approved Project Title **Parental engagement in supported playgroups**

2010	\$20,750.00
2011	\$20,750.00
2012	
2013	
2014	
2015	

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Playgroup Queensland

Administering Organisation Queensland University of Technology

Project Summary

Supported playgroups are an important strategy within Australia's current family policies. However, supported playgroups have been implemented in the absence of strong theoretical or empirical evidence about their effectiveness in promoting positive outcomes for parents and children in families with high support needs. This study undertakes an important step in establishing an evidence-base for supported playgroup programs, by determining the factors associated with variations in parent engagement. Findings have national benefit by providing key information for enhancing program design and program quality in order to improve the capacity of family support programs to retain vulnerable families in services.

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LP100200393 Dr Belinda J Carpenter, Dr Gordon Tait, Mr Michael A Barnes, Mr John Drayton, A/Prof Charles P Naylor, Mr Ian A Thompson

Approved Project Title **Managing family objection to autopsy: a case study of the Queensland coronial system**

2010 \$20,000.00

2011 \$45,000.00

2012 \$50,000.00

2013 \$25,000.00

2014

2015

Primary FoR 1602 CRIMINOLOGY

Partner/Collaborating Organisation(s)

Queensland Health Scientific Services, Queensland Police Service, State Coroners Office

Administering Organisation Queensland University of Technology

Project Summary

Exploring how coroners, police, counsellors, and pathologists engage with families after the shock of a sudden or violent death, and the resulting development of an e-resource, enables a consistent and transparent whole system approach to be established. The expected benefits for the Coronial system will include: a decrease in unnecessary autopsies, a flow on to minimising staffing shortages, and an overall decrease in the cost of a death investigation. The benefits to the community will include: enhanced police relations with families, including those from minority religions and cultures, more informed and appropriate decision making by coroners, less invasive autopsies by pathologists, and more focused intervention by counsellors.

LP100200849 Prof Robin M Drogemuller, Prof Kerry A Raymond

Approved Project Title **Extending building information models (BIM) for specifications and cost planning**

2010 \$45,346.00

2011 \$90,235.00

2012 \$93,277.00

2013 \$48,388.00

2014

2015

Primary FoR 1201 ARCHITECTURE

APAI 1

Partner/Collaborating Organisation(s)

NATSPEC, Project Services

Administering Organisation Queensland University of Technology

Project Summary

The recognition in the 1990's that inefficiencies in the design, construction and maintenance of buildings and infrastructure were costing up to 30 per cent of the total constructed cost of buildings led to a push for the more efficient use of information. The major change in the industry to date has been the introduction of Building Information Models (BIM). Uptake has now reached the tipping point where it is becoming pervasive. This project examines methods of adding value to existing BIM information which will allow the industry and clients to achieve a higher level of efficiency than can be gained just through substitution of BIM for current processes.

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LP100200318 Dr Prasad Gudimetla, Prof David P Thambiratnam, Dr Yuantong Gu, A/Prof Cheng Yan

Approved Project Title **A new generation high crash energy absorbing barrier for improved road safety**

2010	\$36,000.00
2011	\$72,000.00
2012	\$72,000.00
2013	\$36,000.00
2014	
2015	

Primary FoR 0912 MATERIALS ENGINEERING

APAI 2

Partner/Collaborating Organisation(s)

Crowd Control Systems Pty Ltd

Administering Organisation Queensland University of Technology

Project Summary

The new, high energy absorbing road safety barrier developed in this project will provide better protection for all road users than current barriers by reducing the severity of car crashes. Current road barriers result in an average loss of 1600 lives in Australia annually, including a disproportionate number of young lives. The new barrier will be highly efficient in absorbing collisions from vehicles travelling at speeds between 60 to over a 100 kilometres per hour. Installation of the new road safety barrier systems in high accident zones will save lives by reducing the severity of accidents involving road barriers. This will significantly benefit the community by reducing injury, medical, rehabilitation and property damage costs, and improve quality of life for all road users.

LP100200038 Prof Narelle L Haworth, A/Prof Herbert C Biggs, A/Prof Andry Rakotonirainy, Dr Mark J King

Approved Project Title **Integrating technological and organisational approaches to enhance the safety of roadworkers**

2010	\$90,000.00
2011	\$180,000.00
2012	\$185,000.00
2013	\$95,000.00
2014	
2015	

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

APAI 1

Partner/Collaborating Organisation(s)

Australian Workers Union, GHD Pty Ltd, Leighton Contractors, QLD Department of Transport and Main Roads

Administering Organisation Queensland University of Technology

Project Summary

Across Australia about 50 people are killed and 750 are injured in crashes at roadworks each year, costing hundreds of millions of dollars. Making roadworks safer is a complicated task, involving multiple organisations as well as the motoring public. This project will develop and evaluate an integrated program including research into new technologies, testing of strategies to improve organisational and safety culture, and investigation of education approaches. At a time of unprecedented spending on improving Australia's road infrastructure, this research will contribute to ensuring the safety of the workers directly involved in the road improvements necessary to achieve major long-term economic and social benefits.

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LP100200084	Prof Dietmar W Hutmacher, Dr Maria A Woodruff, Dr Siamak Saifzadeh, Prof Ross W Crawford, Prof Robert E Guldberg, Prof David Mooney, Dr Simon G Pearce	
Approved Project Title	Bone tissue engineering using innovative tubular dual-layered nanofiber meshes	
2010		\$64,500.00
2011		\$109,500.00
2012		\$87,500.00
2013		\$42,500.00
2014		
2015		
Primary FoR	0903	BIOMEDICAL ENGINEERING

APDI Dr Maria A Woodruff

Partner/Collaborating Organisation(s)

Georgia Tech Research Corporation, Queensland Orthopaedic Research Trust, Surgical Research Australia Pty Ltd

Administering Organisation Queensland University of Technology

Project Summary

Lifetime risks for long-bone fractures in Caucasians over the age of 50 are 17 per cent for women and 6 per cent for men. A clear therapeutic need exists to address the ever-increasing problems of diminished productivity and reduced quality of life associated with bone disorders as the population ages. To address this challenge, the project's multidisciplinary, international team will develop technologies to heal tibial defects. Furthermore, it will establish Australia's prominence in the tissue engineering field, training the next generation of young scientists and engineers. This technology will be of interest to numerous research groups and companies worldwide and will foster international collaboration, placing Australia at the forefront of this emerging field.

LP100200052	A/Prof Cushla Kapitzke, Dr Stephen J Hay, A/Prof James J Watters, Prof Hitendra K Pillay, Prof Neil Dempster, Dr John F Dungan	
Approved Project Title	Industry-school partnerships: a strategy to enhance education and training opportunities	

2010		\$56,511.50
2011		\$116,212.00
2012		\$118,285.50
2013		\$58,585.00
2014		
2015		
Primary FoR	1301	EDUCATION SYSTEMS

APAI 1

Partner/Collaborating Organisation(s)

Education Queensland, Independent Schools Queensland

Administering Organisation Queensland University of Technology

Project Summary

Australian and state governments have adopted public-private partnerships as a means of providing education systems that meet the long-term knowledge and skill requirements for key industries of the Australian economy. Identifying the elements of industry-school partnerships that enhance educational and economic outcomes will connect students in urban and regional communities to knowledge networks, access to which is essential for a competitive Australian economy. To support this large investment and innovation, policy recommendations and theoretically informed partnership models resulting from the project will contribute to national economic productivity by enhancing the growth and sustainability of communities hosting partnerships.

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LP100200573	Prof Justin O'Brien, Prof Natalie Gallery, Prof Gerhard T Gallery, Dr Martin Fahy, Prof Melvin J Dubnick	
Approved Project Title	The limits of disclosure: private rights, public duties and the search for accountable governance	
2010		\$47,500.00
2011		\$87,500.00
2012		\$83,500.00
2013		\$43,500.00
2014		
2015		
Primary FoR	1801	LAW

APAI 1

Partner/Collaborating Organisation(s)

Financial Services Institute of Australasia

Administering Organisation Queensland University of Technology

Project Summary

A reliance on technical considerations such as enhanced disclosure, literacy programs and attempts to bifurcate between sophisticated and unsophisticated investors has each proved sub-optimal in the search for greater, or more accurately, effective accountability both here in Australia and internationally. The acceptance by the corporate sector to process risk allocation, develop a mutually endorsed formal and informal regulatory framework, and agree on clear and transparent roles and responsibilities marks a significant step forward. It is both significant and innovative that the design and implementation of the proposed strategic plan will derive from an extended exercise in deliberative democracy.

LP100200397	Prof Huizhong Shen, Dr Chun Hu, Dr Margaret Kettle, Prof Robyn A Ewing, Prof Allan Luke	
Approved Project Title	Images, perceptions and resources: enhancing Australia's role in China's English language education	
2010		\$27,500.00
2011		\$55,000.00
2012		\$68,500.00
2013		\$41,000.00
2014		
2015		
Primary FoR	1302	CURRICULUM AND PEDAGOGY

APAI 1

Partner/Collaborating Organisation(s)

Foreign Language Teaching and Research Press, Fudan University

Administering Organisation Queensland University of Technology

Project Summary

Education, being the third largest export industry, plays an extremely important role in Australia's engagement with the Asia region. Chinese students are by far the largest single group of overseas students studying in Australia. However, there is little evidence regarding Australia's presence in the English language market in China, nor of how Chinese language learning businesses draw on Australian sources and resources. The association with two premier Chinese language learning and publishing houses through this joint research project will promote Australian content for language learners in China and provide information for Australian language resource developers focusing on the Chinese market.

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LP100200476	Prof Ian W Turner, Dr Scott W McCue, Dr James S Hanan, Dr Geoffrey N Mercer, Adj/Prof John A Belward, Dr Wilhelmina A Forster, Dr Jerzy A Zabkiewicz, Dr Joseph A Young	
Approved Project Title	Modelling interactions of spray droplets with plants	
2010		\$80,000.00
2011		\$150,000.00
2012		\$140,000.00
2013		\$70,000.00
2014		
2015		
Primary FoR	0802	COMPUTATION THEORY AND MATHEMATICS

APAI 2

Partner/Collaborating Organisation(s)

Bill Gordon Consulting, Nufarm Australia Limited , Plant Protection Chemistry NZ, Syngenta Crop Protection

Administering Organisation Queensland University of Technology

Project Summary

This project addresses the National Research Priority of an environmentally sustainable Australia by developing sophisticated mathematical models and interactive software that will identify environmentally friendlier technologies to efficiently deliver agrichemicals while minimising large scale water usage. National benefits will accrue from the provision for postdoctoral, PhD and IT staff training, while direct links with industry will provide technology transfer to end-users to ensure community uptake. The project will benefit rural and regional communities by providing long-term solutions in the areas of water use and quality, pesticide pollution reduction, and improved environment and human health care.