

Number of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

New South Wales

Macquarie University	1
Southern Cross University	1
The University of New South Wales	14
The University of Newcastle	6
The University of Sydney	9
University of Technology, Sydney	3
University of Wollongong	2

New South Wales **36**

Victoria

Deakin University	6
Monash University	17
RMIT University	1
Swinburne University of Technology	4
The University of Melbourne	19
University of Ballarat	1

Victoria **48**

Queensland

Bond University	1
Griffith University	6
Queensland University of Technology	6
The University of Queensland	22

Queensland **35**

South Australia

The Flinders University of South Australia	3
The University of Adelaide	9
University of South Australia	3

South Australia **15**

Western Australia

Curtin University of Technology	2
Edith Cowan University	1
The University of Western Australia	7

Western Australia **10**

Australian Capital Territory

The Australian National University	6
University of Canberra	1

Australian Capital Territory **7**

Total Number of Grants **151**

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New South Wales

Macquarie University

LP120100463 Avolio, Prof Alberto P; Pilowsky, Prof Paul M; Town, Prof Graham E; Dutkiewicz, Prof Eryk; Goldys, Prof Ewa M

Approved Project Title Blood pressure control by neural activation: underlying mechanisms of electric field stimulation and photostimulation of genetically targeted neurones

2012 \$80,000.00

2013 \$80,000.00

2014 \$80,000.00

Total \$240,000.00

Primary FoR 1102 CARDIOVASCULAR MEDICINE AND HAEMATOLOGY

Partner Organisation(s)

CVRx Inc

Administering Organisation Macquarie University

Project Summary

This project aims to understand how nerve stimulation can be used to treat drug-resistant high blood pressure. The project will lead to new benchmarks for interfacing novel technology with the nervous system and to development and enhancement of commercial devices similar to a cardiac pacemaker for patients with limited treatment options and poor prognosis.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Southern Cross University

LP120100238 Johnston, Dr Scott G; Burton, A/Prof Edward D; Aaso, Mr Thor; Tuckerman, Mr Gerard

Approved Project Title Unravelling the rhizosphere redox-cycling of iron, sulphur and carbon in re-flooded acidic wetlands

2012 \$90,000.00

2013 \$80,000.00

2014 \$80,000.00

Total \$250,000.00

Primary FoR 0402 GEOCHEMISTRY

Partner Organisation(s)

Great Lakes Council, Port Macquarie Hastings Council

Administering Organisation Southern Cross University

Project Summary

This project will reveal how major re-flooding will influence the cycling of iron, sulphur and carbon in re-flooded acidic, freshwater wetlands. By resolving current biogeochemical uncertainties, this project will generate the necessary knowledge platform to underpin wise long-term management of these sensitive and unique landscapes.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

The University of New South Wales

LP120100395 Bridge, A/Prof Catherine E; Judd, A/Prof Bruce H; Lowe, Mr Russell; Demirbilek, A/Prof Oya R; Peng, Prof Gang-Ding; Ward, Mr Stephen J; Cummings, Dr Stephen J

Approved Project Title Livable bathrooms for older people: designing out dependence in activities of daily living

2012	\$140,000.00
2013	\$168,000.00
2014	\$138,000.00
Total	\$446,000.00

Primary FoR 1201 ARCHITECTURE

Partner Organisation(s)

Caroma Industries

Administering Organisation The University of New South Wales

Project Summary

This project aims to establish the design fundamentals needed for the development of more flexible, innovative and safer bathroom fixtures and domestic bathroom environments for older Australians. It provides an understanding of bathroom features and characteristics that function well for older persons and those that diminish their wellbeing.

LP120100690 Collins, Dr Catherine G; Gibson, Prof Cristina

Approved Project Title Leveraging organisational context to maximise team performance and thriving: a dynamic approach to understand team learning across diverse settings

2012	\$245,000.00
2013	\$115,000.00
2014	\$50,000.00
Total	\$410,000.00

Primary FoR 1503 BUSINESS AND MANAGEMENT

Partner Organisation(s)

Inenco Pty Limited

Administering Organisation The University of New South Wales

Project Summary

Work teams can be a means of delivering business objectives as well as promoting human thriving, resulting in employees who are learning and physically vital. Yet competing tensions in organisations threaten these outcomes. The project will examine ways of mitigating contextual challenges to result in sustained organisational performance and employee well being.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100004 **Ferry, Prof Michael; Laws, Dr Kevin J; Kim, Dr Ki J**

Approved Project Title **The design of new die-castable bulk metallic glasses exhibiting superior mechanical performance**

2012	\$42,000.00
2013	\$40,000.00
2014	\$40,000.00
Total	\$122,000.00

Primary FoR 0912 MATERIALS ENGINEERING

Partner Organisation(s)

CJC Company Limited, Korea

Administering Organisation The University of New South Wales

Project Summary

The most dramatic illustration of non-equilibrium processing of a metal is the formation of an amorphous solid that can possess physical and/or functional properties superior to its equilibrium crystalline counterpart. This project will generate new types of net-shape-processed amorphous alloys with an excellent combination of properties.

LP120100595 **Hu, Prof Jiankun; Bennamoun, Prof Dr Mohammed; Petersen, Prof Ian R; Han, Dr Fengling**

Approved Project Title **A theoretical framework for practical partial fingerprint identification**

2012	\$50,000.00
2013	\$45,000.00
2014	\$50,000.00
Total	\$145,000.00

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner Organisation(s)

Telemetry Instruments

Administering Organisation The University of New South Wales

Project Summary

Fingerprints captured from a crime scene are often partial and poor quality which makes it difficult to identify the criminal suspects from large databases. This project will find mathematical models which can estimate the missing information located in the blank areas of a partial fingerprint and effectively identify it.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100523 Kara, A/Prof Sami; Herrmann, A/Prof Christoph

Approved Project Title Sustainability Cockpit: an integrated tool for assessment and improvement of sustainability in manufacturing

2012	\$63,000.00
2013	\$63,000.00
2014	\$63,000.00
Total	\$189,000.00

Primary FoR 0910 MANUFACTURING ENGINEERING

Partner Organisation(s)

Alcoa Australia Rolled Products Pty Ltd, Futuris Brakes International, Institute for Environmental Informatics (ifu) GmbH , Preformed Line Products (Australia) , Technical University of Braunschweig, Western Sydney Manufacturers Network

Administering Organisation The University of New South Wales

Project Summary

This project aims to understand the relation between the traditional business indicators, such as cost, and the environmental indicators, such as carbon footprint. The outcome of this project will be an integrated tool which will allow manufacturers to assess and improve their environmental footprint in a cost effective manner.

LP120100076 Mendelssohn, A/Prof Joanna; De Lorenzo, Dr Catherine M; Speck, A/Prof Catherine M; Inglis, A/Prof Alison S; Murphy, Ms Bernice L; Elliott, Mr Simon M; Miller, Mr Steven J

Approved Project Title Australian art exhibitions 1968-2009: a generation of cultural transformation

2012	\$46,000.00
2013	\$30,000.00
2014	\$41,000.00
Total	\$117,000.00

Primary FoR 2102 CURATORIAL AND RELATED STUDIES

Partner Organisation(s)

Art Gallery of NSW, Art Gallery of South Australia, Museums Australia Incorporated, National Gallery of Australia, National Gallery of Victoria

Administering Organisation The University of New South Wales

Project Summary

The years 1968 to 2009 witnessed a transformation in the way Australians saw the art of their country. This project investigates the impact of increased funding (government and private) and new scholarship on the curating of art exhibitions, and traces the reconfiguration of Australia's art history that took place in exhibitions during this period.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100406 **Muir, Dr Kristy L; Craig, A/Prof Jocelyn (Lyn) P; Yule, Ms Fiona; Walsh, Dr Lucas L**

Approved Project Title **We can't afford not to: supporting young people within their families and communities from early adolescence to early adulthood**

2012	\$112,000.00
2013	\$114,000.00
2014	\$213,000.00
Total	\$439,000.00

Primary FoR 1605 POLICY AND ADMINISTRATION

Partner Organisation(s)

Department of Education, Employment and Workplace Relations, The Foundation for Young Australians

Administering Organisation The University of New South Wales

Project Summary

This project aims to address the problem of young people not in education or work. It will identify solutions about what, how and when families, communities and governments can most effectively support young people with different risk factors to remain or become fully socially and economically engaged from early adolescence to adulthood.

LP120100224 **Newell, A/Prof Benjamin R; Hayes, A/Prof Brett K; Brewer, Prof Marilynn; Lewandowsky, Prof Stephan; Pitman, Prof Andrew J; England, Prof Matthew H; Mitchell, Prof Christopher J**

Approved Project Title **Creating a climate for change: from cognition to consensus**

2012	\$57,180.00
2013	\$73,825.00
2014	\$84,908.00
Total	\$215,913.00

Primary FoR 1702 COGNITIVE SCIENCE

Partner Organisation(s)

Department of Climate Change and Energy Efficiency

Administering Organisation The University of New South Wales

Project Summary

Climate change is a significant contemporary issue, and communicating the complexities of the terminology and the data is a major modern challenge. This project will apply principles of cognitive and social psychology to determine the most effective methods for promoting an understanding of the scientific dimensions of the issue. The research is significant because it provides a coherent theoretical framework for identifying the psychological mechanisms underlying cognition and commitment at both an individual and collective level. The outcome will be a body of evidence that will inform strategies and policies for communication of complex scientific questions.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100672 Ostrovski, Prof Oleg

Approved Project Title **The use of non-traditional materials in production of manganese alloys with economic and environmental benefits**

2012	\$107,516.00
2013	\$60,000.00
2014	\$60,000.00
Total	\$227,516.00

Primary FoR 0914 RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner Organisation(s)

Tasmanian Electrometallurgical Company Pty Ltd

Administering Organisation The University of New South Wales

Project Summary

The use of ironstone and siliceous manganese ore in production of silicomanganese will have technological, economic and environmental benefit through improved technology and the use of local materials. It will also stimulate the development of the Tasmanian mineral industry, infrastructure and improvement of employment.

LP120100704 Phung, Dr Toan B; Blackburn, A/Prof Trevor R; Ambikairajah, Prof Eliathamby; Salay Naderi, Dr Mohammad; McMullan, Mr Patrick J

Approved Project Title **Improving grid performance: detection of arc faults and determination of energy losses in electricity distribution networks**

2012	\$60,000.00
2013	\$40,000.00
2014	\$40,000.00
Total	\$140,000.00

Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner Organisation(s)

Australian Strategic Technology Program

Administering Organisation The University of New South Wales

Project Summary

This project will develop a monitoring system to address the critical need to ensure safe operations of overhead power lines, particularly in rural areas, and prevent bushfires caused by electrical faults. The research also enables monitoring of power losses in electricity distribution networks and improving the energy efficiency of the supply system.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100108 Rao, A/Prof Ursula

Approved Project Title **The application and consequences of e-governance for India's fight against urban poverty**

2012	\$30,000.00
2013	\$30,000.00
2014	\$30,000.00
Total	\$90,000.00

Primary FoR 1699 OTHER STUDIES IN HUMAN SOCIETY

Partner Organisation(s)

Ankur: Society for Alternatives in Education

Administering Organisation The University of New South Wales

Project Summary

This project studies the deployment of biometric registration and social data bases for the delivery of welfare in India. It examines how social processes, local cultures and survival strategies shape these initiatives. What can be learned from the implementation phase of these path-finding social security schemes in third world conditions?

LP120100543 Redmond, Dr Gerard M; Skattebol, Dr Jennifer; Saunders, Prof Peter G; Thomson, Dr Sue; Bradshaw, Prof Jonathan R; Andresen, Prof Dr Sabine

Approved Project Title **Are the kids alright? Understanding the wellbeing of Australian children in their middle years**

2012	\$145,805.00
2013	\$178,309.00
2014	\$88,197.00
Total	\$412,311.00

Primary FoR 1605 POLICY AND ADMINISTRATION

Partner Organisation(s)

Australian Bureau of Statistics, Australian Institute of Health and Welfare, Department of Education, Employment and Workplace Relations, Department of Families, Housing, Community Services and Indigenous Affairs

Administering Organisation The University of New South Wales

Project Summary

This project will produce the first comprehensive national stock-take of wellbeing among Australian children in their middle years, with a special focus on children who experience disadvantage. Findings will reflect children's views and experiences, have direct policy relevance and lay the groundwork for comparing and monitoring of child wellbeing.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100337 Sahajwalla, Prof Veena

Approved Project Title **Novel recycling approach for automotive waste glass and plastics**

2012	\$126,013.00
2013	\$110,000.00
2014	\$110,000.00
Total	\$346,013.00

Primary FoR 0907 ENVIRONMENTAL ENGINEERING

Partner Organisation(s)

OneSteel Sydney Steel Mill

Administering Organisation The University of New South Wales

Project Summary

This project will develop innovative recycling of automotive waste containing glass and plastics by converting them into value-added material resources. The project outcomes will allow industries to tackle this global waste challenge, reduce landfill burden and enhance waste recycling in Australia.

LP120100592 Suthers, Prof Iain M; Lowry, Dr Michael B; Johnston, A/Prof Emma L; Roughan, Dr Moninya; Taylor, Dr Matthew D; Gray, Prof Charles A

Approved Project Title **The trophic ecosystem of a purpose-built, offshore artificial reef: do coastal currents supply sufficient nutrients for the local production of fish?**

2012	\$259,617.00
2013	\$157,000.00
2014	\$97,000.00
Total	\$513,617.00

Primary FoR 0501 ECOLOGICAL APPLICATIONS

Partner Organisation(s)

Cronulla Fisheries Research Centre of Excellence

Administering Organisation The University of New South Wales

Project Summary

Offshore artificial reefs may provide enhanced recreational fishing for an urbanized coast. This project will investigate the oceanographic and ecological processes around the new, design-specific, reefs off Sydney to determine if they actually produce fish, rather than simply attract fish. The project will influence the design of future reefs.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

The University of Newcastle

LP120100219 Aitken, Prof Robert J; Gibb, Ms Zamira

Approved Project Title **Enhancing the efficiency of equine reproduction: novel approaches relevant to the Thoroughbred and Standardbred breeding industries**

2012	\$160,000.00
2013	\$130,000.00
2014	\$130,000.00
Total	\$420,000.00

Primary FoR 0702 ANIMAL PRODUCTION

Partner Organisation(s)

Harness Racing Australia Inc, Hunter Valley Equine Research Centre

Administering Organisation The University of Newcastle

Project Summary

The purpose of this project is to link the equine breeding industry with a major centre of reproductive research at the University of Newcastle. By creating this unique nexus, major efficiency gains will be achieved for this industry that will not only secure its international competitiveness but also significantly enhance its profitability.

LP120100680 Fityus, A/Prof Stephen G; Cameron, Dr Donald A; Abbo, Dr Andrew J; Merifield, Dr Richard S

Approved Project Title **Foundation systems for reactive soils using scarification and screw piles**

2012	\$224,128.00
2013	\$100,000.00
2014	\$100,000.00
2015	\$109,128.00
Total	\$533,256.00

Primary FoR 0905 CIVIL ENGINEERING

Partner Organisation(s)

Ideal Foundations

Administering Organisation The University of Newcastle

Project Summary

This project will investigate the use of soil scarification, in combination with screw piles, as a reliable option for light-weight foundations on damaging reactive (expansive) clay soils. It will validate an innovative foundation alternative that will result in significant cost savings for residential foundations on reactive soil.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100596 Galvin, Prof Kevin P

Approved Project Title **Maximizing the kinetics of flotation processes**

2012	\$50,000.00
2013	\$75,000.00
2014	\$75,000.00
Total	\$200,000.00

Primary FoR 0914 RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner Organisation(s)

Australian Coal Research Ltd, Ludowici Australia Pty Ltd

Administering Organisation The University of Newcastle

Project Summary

The purpose of this project is to develop a new flotation technology that can be operated at feed rates vastly higher than existing technologies. The technology will be applicable to low grade feeds often discarded to tailings, delivering billions of dollars in additional exports of Australian resources and contributing to the growth in the mining services sector.

LP120100013 Gore, Prof Jennifer M; Albright, Prof James J; Southgate, Dr Erica L; Holmes, Dr Kathryn; Smith, Prof Maxwell W

Approved Project Title **Educational and career aspirations in the middle years of schooling: understanding complexity for increased equity**

2012	\$155,000.00
2013	\$162,440.00
2014	\$100,000.00
2015	\$217,440.00
Total	\$634,880.00

Primary FoR 1608 SOCIOLOGY

Partner Organisation(s)

NSW Department of Education and Communities

Administering Organisation The University of Newcastle

Project Summary

This project examines the complex relationships among factors that shape the career and educational aspirations of students in the middle years of schooling across three New South Wales regions. The study will inform interventions designed to achieve greater participation in schooling and higher education for students from low socio-economic status backgrounds.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100064 **Moghtaderi, Prof Behdad; Page, Em/Prof Adrian W; Inglis, Ms Catherine M**

Approved Project Title **Development of a measure for assessment of the dynamic thermal response of buildings**

2012	\$110,000.00
2013	\$110,000.00
2014	\$110,000.00
Total	\$330,000.00

Primary FoR 0915 INTERDISCIPLINARY ENGINEERING

Partner Organisation(s)

Think Brick Australia

Administering Organisation The University of Newcastle

Project Summary

This project will develop a unique measure for assessing the thermal behaviour of walls and buildings with the view to improving the accuracy and effectiveness of efforts being made in energy efficient housing. This should increase confidence for both consumers and manufacturers in the use of new energy efficient building designs.

LP120100618 **Sanson-Fisher, Prof Robert W; Tang, Ms Anita; Carey, Dr Mariko; Bryant, Miss Jamie; Tzelepis, Dr Flora; Chapman, Ms Kathryn; Vallentine, Ms Paula; Doran, Prof Christopher M; McElduff, Dr Patrick**

Approved Project Title **Improving cancer treatment systems: a randomised controlled trial of a consumer action model for cancer patients receiving chemotherapy**

2012	\$83,136.00
2013	\$83,136.00
2014	\$83,136.00
Total	\$249,408.00

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

APDI Miss Jamie Bryant

Partner Organisation(s)

Cancer Council NSW

Administering Organisation The University of Newcastle

Project Summary

The project aims to assess the effectiveness of a model for improving cancer treatment systems, which emphasises meaningful engagement of cancer consumers in identifying, implementing and evaluating strategies of change. System changes are expected to reduce patients' unmet supportive care needs and improve overall quality of life.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

The University of Sydney

LP120100608 Barton, Em/Prof Geoffrey W; Kavanagh, Dr John M; Fletcher, Adj/Prof David F; Balzan, Dr Tony

Approved Project Title Yield improvement in large-scale bubble column fermenters

2012	\$70,000.00
2013	\$70,000.00
2014	\$70,000.00
Total	\$210,000.00

Primary FoR 0915 INTERDISCIPLINARY ENGINEERING

Partner Organisation(s)

AB Mauri Technology and Development Pty Ltd

Administering Organisation The University of Sydney

Project Summary

For companies operating in the global marketplace, yield differences of a few percent can be critically important. Improving yeast fermentation yield requires major advances in modelling the bubble size distribution and how this impacts micro- and macro-scale mixing. Model-based knowledge transfer via full-scale plant trials is a key outcome.

LP120100067 Cairney, A/Prof Julie M; Ferry, Prof Michael; Cai, Mr Hui

Approved Project Title Atomic-scale insights into interfaces in ultrafine-grained, low-solute alloys

2012	\$90,000.00
2013	\$90,000.00
2014	\$90,000.00
Total	\$270,000.00

Primary FoR 0912 MATERIALS ENGINEERING

Partner Organisation(s)

Carl Zeiss Pty Ltd

Administering Organisation The University of Sydney

Project Summary

This project will involve the development and application of innovative advanced microscopy methods for the study of the stability of new, ultrafine-grained alloys. This will allow the design of new alloys with exceptional properties for structural applications in environments that require ultra-high performance.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100059 **de Sterke, Prof Carel M; Fleming, Prof Simon C; Eggleton, Prof Benjamin J; Duvall, Dr Steven G; Atanackovic, Dr Petar**

Approved Project Title **Deep-ultraviolet light source by frequency doubling of blue or green light for disinfection**

2012	\$100,000.00
2013	\$80,000.00
2014	\$85,000.00
Total	\$265,000.00

Primary FoR 0205 OPTICAL PHYSICS

Partner Organisation(s)

The Silanna Group

Administering Organisation The University of Sydney

Project Summary

Current ultraviolet light sources are inefficient and often bulky. By an alternative approach, in which the wavelength of blue or green light is halved, this project will design and build compact, efficient sources of ultraviolet light, which can be used for disinfection and sterilization. Such devices can be fabricated by Australian industry in Australia.

LP120100661 **Eggleton, Prof Benjamin J; Schröder, Dr Jochen B; Roelens, Dr Michaël A**

Approved Project Title **A versatile optical wavelength and mode switching device for future telecommunication networks**

2012	\$83,136.00
2013	\$83,136.00
2014	\$83,136.00
Total	\$249,408.00

Primary FoR 0205 OPTICAL PHYSICS

APDI Dr Jochen B Schröder

Partner Organisation(s)

Finisar Corporation

Administering Organisation The University of Sydney

Project Summary

This project will develop a next generation switching device for future fibre optical communication networks that will divide their information among several modes of specialty fibre. This device will be a key component for allowing network operators to move to these novel mode-multiplexed networks in order to overcome the looming capacity crunch.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100577 **Ingram, Dr Lachlan J; Crawford, Prof John W; Merchant, Dr Andrew**

Approved Project Title **Securing soil and water using carbon**

2012	\$75,000.00
2013	\$75,000.00
2014	\$55,000.00
Total	\$205,000.00

Primary FoR 0503 SOIL SCIENCES

Partner Organisation(s)

The Trustee for Isobel Emily Lichfield Estate / Coolringdon Pastoral Company

Administering Organisation The University of Sydney

Project Summary

This project will ascertain the role of sequestered carbon in positively impacting on chemical, physical and biological and associated feedback mechanisms in order to increase the capacity of soil to store water and carbon. This information will allow us to maximise our ability to manage and rehabilitate Australia's increasing degraded soil resource.

LP120100700 **Nebot, Prof Eduardo M; Nieto, Dr Juan I; Brooker, Dr Graham M**

Approved Project Title **Development of fundamental perception technology and algorithms for mining safety**

2012	\$120,800.00
2013	\$120,000.00
2014	\$120,000.00
2015	\$120,000.00
Total	\$480,800.00

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner Organisation(s)

Komatsu Australia

Administering Organisation The University of Sydney

Project Summary

The project will push the boundaries of mining safety research to deliver innovative and powerful tools to understand and control the level of risk of an operation. This knowledge will be used to develop algorithms to best assess safety issues in different scenarios, to design safety procedures and to develop operator training.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100458 Rasmussen, Prof Kim J; Zhang, Dr Hao; Clarke, Dr Murray J; Yang, Dr Demao; Berry, Dr Paul A

Approved Project Title **Seismic behaviour of drive-in steel storage racks**

2012	\$76,203.00
2013	\$55,577.00
2014	\$70,709.00
Total	\$202,489.00

Primary FoR 0905 CIVIL ENGINEERING

Partner Organisation(s)

Dematic Pty Ltd

Administering Organisation The University of Sydney

Project Summary

The purpose of this project is to study the behaviour, analysis and design of drive-in steel storage racks in an earthquake event. The main research outcome is the development of scientifically-based guidelines for the safe design of drive-in racks in seismic regions.

LP120100552 Todd, Dr Matthew H; Wells, Dr Timothy N

Approved Project Title **Open source drug discovery for malaria**

2012	\$120,000.00
2013	\$100,000.00
2014	\$100,000.00
Total	\$320,000.00

Primary FoR 0305 ORGANIC CHEMISTRY

Partner Organisation(s)

Medicines for Malaria Venture

Administering Organisation The University of Sydney

Project Summary

This project aims to discover a new drug for the treatment of malaria. In stark contrast to the traditional process of drug discovery, and to accelerate the project's progress, the research will be open source, meaning that anyone can participate and there will be no patents.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100243 Williams, Prof Andrew M; Goodyear, Prof Peter M; Jacobson, Prof Michael J; O'Connor, A/Prof Donna; Causer, Dr Joe

Approved Project Title **Anticipation and decision making skill: from testing to training**

2012 \$139,082.00

2013 \$93,232.00

2014 \$94,382.00

Total \$326,696.00

Primary FoR 1106 HUMAN MOVEMENT AND SPORTS SCIENCE

APDI Dr Joe Causer

Partner Organisation(s)

Football Federation Australia

Administering Organisation The University of Sydney

Project Summary

This project examines how experts anticipate and make decisions in dynamic, time constrained environments. The project will identify factors that contribute to the development of expertise and develop simulation-based training programs to facilitate the more rapid acquisition of the skills underpinning anticipation and decision making.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

University of Technology, Sydney

LP120100493 **Louviere, Prof Jordan J; Burke, Dr Paul F; Carson, A/Prof Richard T; MacAulay, Em/Prof Gordon; Quail, Dr Ken**

Approved Project Title **The value of characteristics of Australian wheat**

2012 \$71,200.00

2013 \$89,339.00

Total **\$160,539.00**

Primary FoR 1505 MARKETING

Partner Organisation(s)

Grain Growers Ltd

Administering Organisation University of Technology, Sydney

Project Summary

This project will identify the functional wheat characteristics considered by the Japanese millers when deciding what and how much to buy. It will also determine how these functional and non-functional Australian wheat characteristics are perceived by the millers compared to other countries, and determine the importance of each one of these characteristics on the final choice.

LP120100659 **Williams, Prof Mary-Anne; Wightwick, Mr Glenn; Johnston, Dr Benjamin G**

Approved Project Title **A framework for physical and social collaboration: towards the smarter planet vision**

2012 \$75,000.00

2013 \$70,000.00

2014 \$75,000.00

Total **\$220,000.00**

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner Organisation(s)

IBM Australia Ltd

Administering Organisation University of Technology, Sydney

Project Summary

This project will make intelligent collaborative technologies a reality by advancing the theory of collaborative action and developing an innovative framework and practical methods which will allow intelligent systems to undertake the collaborative actions required for applications in transport, energy management, sustainability, and healthcare.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100566 **Zhang, Prof Chengqi; Cao, Prof Longbing; Chen, Dr Ling; Wisener, Mr David I; Halloran, Mr Donald R; Wang, Mr Alan T; Monk, Mr Cameron**

Approved Project Title **Mining complex concurrency relationship patterns for dynamic customer/asset interaction modelling through novel industrial behaviour networks**

2012 \$140,000.00

2013 \$120,000.00

2014 \$120,000.00

Total **\$380,000.00**

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner Organisation(s)

Coates Hire

Administering Organisation University of Technology, Sydney

Project Summary

This project will develop novel data mining algorithms to model the evolution of concurrency relationships between customers and assets. It will take into account multiple aspect factors for a business such as seasonality, government policy, and other external events, for making fast, accurate, and efficient business decisions.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

University of Wollongong

LP120100422 **Coltman, Prof Timothy R; Devinney, Prof Timothy M; Sharma, Dr Rajeev; Gudergan, Prof Dr Siegfried P; Brooks, Dr Benjamin P; Lin, Dr Nidhida**

Approved Project Title **Technology and innovation management in high risk situations**

2012	\$128,367.00
2013	\$119,000.00
2014	\$135,000.00
2015	\$160,000.00
2016	\$110,000.00
Total	\$652,367.00

Primary FoR 1503 BUSINESS AND MANAGEMENT

Partner Organisation(s)

Newcastle Port Corporation, Port Kembla Port Corporation

Administering Organisation University of Wollongong

Project Summary

The value of Australian bulk commodity exports and container imports is expected to double from \$400 billion to \$800 billion by 2020, placing considerable pressure on port waters. This project will examine the challenge whereby port operators are both encouraged to take risks to innovate but are constrained by the consequences of risk.

LP120100173 **Dou, Prof Shi Xue; Kim, Dr Jung Ho; Hossain, Dr Md.Shahriar A; Peleckis, Dr Germanas**

Approved Project Title **Synergetic combination of localised internal magnesium diffusion process with cold compaction technique for fabrication of magnesium diboride (MgB₂) superconductor wires**

2012	\$90,000.00
2013	\$90,000.00
2014	\$90,000.00
Total	\$270,000.00

Primary FoR 0912 MATERIALS ENGINEERING

Partner Organisation(s)

Hyper Tech Research Inc

Administering Organisation University of Wollongong

Project Summary

This project seeks major advancements in magnesium diboride (MgB₂) superconductor performance through the development of novel techniques for the fabrication of MgB₂ wire. Further improvement in MgB₂ wire performance holds the key to a number of significant commercial applications, including Magnetic Resonance Imaging, fault current limiters and wind turbines.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Victoria

Deakin University

LP120100372 Bucknall, Prof Tracey K; Hutchinson, A/Prof Alison M

Approved Project Title Listen to me, I really am sick! Understanding patient and family perspectives in triggering responses to medical emergencies

2012	\$30,851.00
2013	\$31,141.00
2014	\$31,351.00
Total	\$93,343.00

Primary FoR 1110 NURSING

Partner Organisation(s)

Austin Health, Australian Commission on Safety and Quality in Health Care , Cabrini Health, North West Regional Hospital, University of Ulster - Newtownabbey

Administering Organisation Deakin University

Project Summary

This project investigates whether patient and family perspectives are treated as evidence of a deteriorating health state whilst in hospital. Recommendations from this study will inform the development of patient centred strategies to reduce delays in clinician response to physiological deterioration and improve patient safety in hospitals.

LP120100111 Hodgson, Prof Peter D; Barnett, Prof Matthew R; Rolfe, Dr Bernard F; Yang, Dr Chunhui

Approved Project Title Flexible roll forming of advanced high strength steel sheet

2012	\$100,000.00
2013	\$70,000.00
2014	\$100,000.00
Total	\$270,000.00

Primary FoR 0913 MECHANICAL ENGINEERING

Partner Organisation(s)

Australian Rollforming Manufacturers Pty Ltd, Blue Scope Steel Limited, Research and Development Centre of Wuhan Iron & Steel (Group) Corporation, data M Sheet Metal Solutions

Administering Organisation Deakin University

Project Summary

This project will develop light weight automotive components to assist fuel economy and crash worthiness through flexible roll forming. This process has the potential to form complex shapes from very high strength steels in a very cost effective and efficient small scale operation, highly suited to Australian manufacturing.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100168 **Lawrence, A/Prof Mark A; Ryan, Prof Dr Chris j; Friel, A/Prof Sharon; Moodie, A/Prof Marjory L; Turner, Dr Graham M**

Approved Project Title **Modelling policy interventions to protect Australia's food security in the face of environmental sustainability challenges**

2012 \$100,000.00

2013 \$90,000.00

2014 \$80,000.00

Total **\$270,000.00**

Primary FoR 0501 ECOLOGICAL APPLICATIONS

Partner Organisation(s)

Australian Egg Corporation , Horticulture Australia , Meat and Livestock Australia, SA Department of Health, SA Department of Primary Industries and Resources, Victorian Department of Health, Victorian Health Promotion Foundation

Administering Organisation Deakin University

Project Summary

This project will use an innovative scenario modelling approach to quantify the potential impacts of population growth and emerging climate and environmental challenges on Australia's future food security. In collaboration with an advisory committee it will specify and prioritise policy solutions in terms of their social and economic credentials.

LP120100598 **Nahavandi, Prof Saeid; Creighton, Dr Doug C; Gu, Dr Nong; Hanoun, Dr Samer E**

Approved Project Title **Adaptive scenario generation and performance evaluation for virtual training of helicopter pilots**

2012 \$70,000.00

2013 \$70,000.00

2014 \$70,000.00

Total **\$210,000.00**

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner Organisation(s)

Ytek

Administering Organisation Deakin University

Project Summary

Helicopters are widely used for operations such as remote transport, surveying, search and rescue and medical evacuation. 76 helicopter fatalities were recorded in Australia over the last decade. This project will develop effective pilot training methods, delivered through virtual simulation, to improve aviation safety.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100239 **Rolfe, Dr Bernard F; Hodgson, Prof Peter D; Forsyth, Prof Maria; Xiang, A/Prof Yong; Doolan, Dr Matthew C; Pereira, Dr Michael P**

Approved Project Title **Developing an environmentally friendly, low cost solution to reduce wear and improve productivity in metal forming**

2012 \$157,589.00

2013 \$123,189.00

2014 \$129,189.00

Total **\$409,967.00**

Primary FoR 0912 MATERIALS ENGINEERING

APDI Dr Michael P Pereira

Partner Organisation(s)

Ford Motor Company of Australia Ltd

Administering Organisation Deakin University

Project Summary

Tool wear is an increasing problem for automotive manufacturers, resulting in significant loss of manufacturing efficiency. This project will provide new understanding of tool wear, innovative active monitoring systems and novel environmentally friendly lubricants to reduce tool wear.

LP120100605 **Skouteris, A/Prof Helen; McCabe, Prof Marita P; Fuller-Tyszkiewicz, Dr Matthew D**

Approved Project Title **Addressing risk factors of overweight and obesity among adolescents in out-of-home care: The Healthy Eating and Active Living (HEAL) study**

2012 \$110,000.00

2013 \$85,000.00

2014 \$105,000.00

Total **\$300,000.00**

Primary FoR 1701 PSYCHOLOGY

Partner Organisation(s)

Berry Street Victoria, Child Safety Commissioner , The Salvation Army Westcare

Administering Organisation Deakin University

Project Summary

The health risk of overweight and obesity when adolescents are placed in out-of-home care has been largely ignored. This project will be the first to evaluate a healthy eating and physical activity obesity prevention/intervention program designed specifically for vulnerable and disadvantaged adolescents living in out-of-home residential care.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Monash University

LP120100284 Beardall, Prof John; Burford, A/Prof Michele A; Orr, Dr Philip T; Visser, Dr Petra M

Approved Project Title Living in a high carbon dioxide world: impacts on freshwater phytoplankton populations from elevated atmospheric carbon dioxide

2012	\$86,191.00
2013	\$106,374.00
2014	\$86,240.00
Total	\$278,805.00

Primary FoR 0501 ECOLOGICAL APPLICATIONS

Partner Organisation(s)

South East Queensland Water, University of Amsterdam

Administering Organisation Monash University

Project Summary

This project will investigate likely changes in phytoplankton populations in reservoirs that will be caused by increases in atmospheric carbon dioxide over the next century. The project will provide water supply managers with the necessary information to plan future strategies for water treatment and operating procedures.

LP120100539 Birbilis, A/Prof Nick; Davies, Prof Christopher H; Hammond, Dr Vincent H; Placzankis, Mr Brian E

Approved Project Title Advanced metallic body armour

2012	\$35,000.00
2013	\$30,000.00
2014	\$35,000.00
Total	\$100,000.00

Primary FoR 0912 MATERIALS ENGINEERING

Partner Organisation(s)

United States Army Research Laboratory

Administering Organisation Monash University

Project Summary

This project will use alloy and processing technologies to develop lightweight, better performing magnesium-based metallic armour that will allow enhanced soldier mobility and protection.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100683 Brown, Prof Rebekah R; Deletic, Prof Ana; de Haan, Dr Johannes

Approved Project Title Exploring social innovations in urban water systems with a novel modelling approach

2012 \$83,136.00

2013 \$83,136.00

Total \$166,272.00

Primary FoR 1608 SOCIOLOGY

APDI Dr Johannes de Haan

Partner Organisation(s)

Melbourne Water Corporation

Administering Organisation Monash University

Project Summary

The project will investigate how wide reaching social renewal takes place in the urban water sector. With improved understanding of how social innovation works, the project will develop a computer model to assist decision-making under conditions of high uncertainty with systematic scenario analysis.

LP120100281 Currie, Prof Peter D; Collingwood, Dr Trevor N

Approved Project Title Generating a targeted mutation resource in zebrafish

2012 \$270,000.00

2013 \$270,000.00

Total \$540,000.00

Primary FoR 0604 GENETICS

Partner Organisation(s)

Sigma-Aldrich Pty Limited, The Jain Foundation

Administering Organisation Monash University

Project Summary

How do genes function to build organisms and how are they regulated to produce organs and tissues? Using a new technique to target specific genes in the genome of zebrafish, this project will determine how genes control formation of different tissues. The new gene "knockout" technology will fundamentally change our understanding of how genes work during development.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100258 Garoni, Dr Timothy M; DeGier, A/Prof Jan; Schadschneider, Prof Dr Andreas

Approved Project Title Modelling large urban transport networks using stochastic cellular automata

2012	\$70,000.00
2013	\$65,000.00
2014	\$70,000.00
Total	\$205,000.00

Primary FoR 0102 APPLIED MATHEMATICS

Partner Organisation(s)

Roads Corporation

Administering Organisation Monash University

Project Summary

Urban traffic congestion is a major social, economic and environmental problem, and to overcome it we need reliable and flexible mathematical models of traffic flow. This project will introduce and study new mathematical traffic models, and use them to study innovative traffic signal systems for our arterial roads, freeways, and tram routes.

LP120100160 Gerber, Dr Paula; Russell, Prof Lynette W; Freemantle, A/Prof Cecily J; Castan, Ms Melissa

Approved Project Title Closing the gap on Indigenous birth registration

2012	\$60,000.00
2013	\$60,000.00
2014	\$30,000.00
Total	\$150,000.00

Primary FoR 1801 LAW

Partner Organisation(s)

Clayton Utz Solicitors, Equal Opportunity Commission, Hills Community Support Group, Plan International Australia, Tangentyere Council, Victorian Aboriginal Legal Service Cooperative

Administering Organisation Monash University

Project Summary

This project investigates the nature and extent of problems faced by Indigenous Australians trying to access the birth registration systems within Australia. Following extensive consultation with Indigenous communities and other key stakeholders, this project will identify the causes of the problem and recommend appropriate solutions.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100005 Gunstone, Dr Andrew

Approved Project Title Financial dispossession: a history of Indigenous peoples and stolen wages in Victoria

2012	\$30,000.00
2013	\$30,000.00
Total	\$60,000.00

Primary FoR 2103 HISTORICAL STUDIES

Partner Organisation(s)

Australian Services Union (Vic Authorities and Services Branch) , Australians for Native Title and Reconciliation (Vic) , Construction, Forestry, Mining and Energy Union, National Tertiary Education Union, Public Interest Law Clearing House (Vic), Victorian Aboriginal Child Care Agency Cooperative, Victorian Aboriginal Legal Service Cooperative

Administering Organisation Monash University

Project Summary

This project will investigate the history and impact of past Victorian government policies on stolen wages on Victorian Indigenous communities. The project will further the understanding of these stolen wages policies and assist in the campaigns for justice for those Indigenous people affected by these policies.

LP120100183 Krever, Prof Rick E; Evans, Prof Christopher C; O'Connell, A/Prof Ann M; Sharkey, Dr Nolan C; Ting, Mr Antony K

Approved Project Title Mitigating tax barriers to trade and investment relations between Australia and the People's Republic of China

2012	\$45,000.00
2013	\$40,000.00
2014	\$45,000.00
Total	\$130,000.00

Primary FoR 1801 LAW

Partner Organisation(s)

Brilliant Development Pty Ltd, Zhongnan University of Economics and Law

Administering Organisation Monash University

Project Summary

China and Australia's conflicting tax rules and attitudes towards tax administration affect the level of trade, investment and labour mobility between the two countries. This project will explore and propose methods of reform for both the Chinese and Australian tax systems to strengthen our economic relationship.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100718 **McCarthy, Dr David T; Deletic, Prof Ana; Osborne, Dr Catherine A; Grant, Prof Stanley B**

Approved Project Title **Sources, sinks and processes of faecal contamination in urban estuaries: a case study of the lower Yarra River estuary**

2012	\$231,067.00
2013	\$154,833.00
2014	\$55,000.00
Total	\$440,900.00

Primary FoR 0905 CIVIL ENGINEERING

Partner Organisation(s)

Melbourne Water Corporation

Administering Organisation Monash University

Project Summary

The Yarra River estuary is highly contaminated with faecal pollution, reducing the useability of Melbourne's most iconic feature. This project will provide the necessary understanding to help mitigate faecal sources, with the ultimate aim of reducing the risks to users of this estuary.

LP120100703 **Meeusen, Prof Els N**

Approved Project Title **Exploiting the lymphatic system for next generation vaccine development**

2012	\$200,000.00
2013	\$190,000.00
2014	\$180,000.00
Total	\$570,000.00

Primary FoR 1107 IMMUNOLOGY

Partner Organisation(s)

GlaxoSmithKline Biologicals

Administering Organisation Monash University

Project Summary

Vaccination is the most successful and cost-effective means of combating infectious diseases. This project will look at how vaccine adjuvants work and will help the development of new vaccines against infections in both animals and man. It will also promote the training of Australian scientists in the field of vaccine research and development.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100301 **Nicholson, A/Prof Ann E; Korb, Dr Kevin B; Potts, Mr Rodney**

Approved Project Title **Temporal and spatial Bayesian network modelling for improved fog forecasting**

2012	\$60,000.00
2013	\$80,000.00
2014	\$85,000.00
Total	\$225,000.00

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner Organisation(s)

Bureau of Meteorology

Administering Organisation Monash University

Project Summary

This project aims to improve the accuracy of fog forecasting by explicitly modelling the spatial and temporal uncertainties surrounding fog formation. It is expected weather forecast services will adopt our approach to improve their predictions of fog, which will in turn help transport companies save costs, cut emissions and improve safety.

LP120100689 **O'Brien, Dr Kerry S; Miller, Dr Peter G; Lynott, Dr Dermot; Room, Prof Robin G; Livingston, Mr Michael J**

Approved Project Title **Exposure to alcohol advertising and sponsorship in Australian televised sport: association with explicit and implicit alcohol cognitions and drinking**

2012	\$51,599.00
2013	\$43,382.00
2014	\$59,196.00
Total	\$154,177.00

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

Australian Drug Foundation, Victorian Department of Health

Administering Organisation Monash University

Project Summary

The project will examine whether alcohol advertising and sponsorship in televised sport is related to positive alcohol-related thoughts and alcohol consumption in young adults. The project will use novel methods that assess both conscious and unconscious alcohol-related attitudes, and will provide important evidence for informing alcohol policy.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100418 Peeters, Dr Anna; Magliano, Dr Dianna J; Stevenson, Dr Christopher E; Martin, Ms Jane E; Ball, Prof Kylie; Beauchamp, Dr Alison J

Approved Project Title What will it take to decrease socio-economic inequalities in obesity?

2012	\$44,763.00
2013	\$46,736.00
2014	\$48,709.00
Total	\$140,208.00

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

Baker IDI Heart and Diabetes Institute, Cancer Council of Victoria, Victorian Health Promotion Foundation

Administering Organisation Monash University

Project Summary

There is little understanding of how the increasing prevalence of obesity, and its prevention and management, may contribute to socio-economic inequalities in health. This project aims to identify policies that are most likely to both decrease the prevalence of obesity and decrease associated inequalities in health.

LP120100600 Pouton, Prof Colin W; Porter, Prof Chris J; Benameur, Dr Hassan

Approved Project Title Supersaturated and non-digestible dispersions in the intestinal lumen: new mechanisms to reduce variability in the rate and extent of drug absorption

2012	\$120,000.00
2013	\$105,000.00
2014	\$105,000.00
Total	\$330,000.00

Primary FoR 1115 PHARMACOLOGY AND PHARMACEUTICAL SCIENCES

Partner Organisation(s)

Capsugel France SAS

Administering Organisation Monash University

Project Summary

This project will design new polymers to be included in capsule formulations to prevent the precipitation of drugs in the intestine after their oral administration. This new technology will reduce the incidence of side-effects and ensure that patients absorb the correct dose of drug regardless of whether they take the drug before or after food.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100414 **Robinson, A/Prof Andrea J; Norton, Prof Raymond S**

Approved Project Title **New Conus-derived alpha-conotoxin analgesics for the treatment of chronic pain: structure, mode of action, delivery and disposition**

2012	\$200,000.00
2013	\$125,000.00
2014	\$125,000.00
Total	\$450,000.00

Primary FoR 0304 MEDICINAL AND BIOMOLECULAR CHEMISTRY

Partner Organisation(s)

Polychip Pharmaceuticals Pty Ltd

Administering Organisation Monash University

Project Summary

Current product deficiencies in the area of pain management are forcing the pharmaceutical industry to develop new strategies for achieving analgesia and reduce their dependence on traditional, addictive opiate-based products. Structural modification of cone snail derived peptides will provide exciting new leads for achieving effective analgesia.

LP120100115 **Siems, A/Prof Steven T; Manton, Prof Michael J; Ebert, Dr Elizabeth E; Franklin, Dr Charmaine N; Protat, Dr Alain; Kenyon, Dr Suzanne L; Peace, Mr Andrew D; Carson, Mr Gregory W**

Approved Project Title **Precipitation in wintertime storms across southeast Australia, Tasmania and the Southern Ocean**

2012	\$204,000.00
2013	\$223,000.00
2014	\$239,000.00
Total	\$666,000.00

Primary FoR 0401 ATMOSPHERIC SCIENCES

Partner Organisation(s)

Department of Sustainability and Environment Victoria, Hydro Tasmania, Snowy Hydro Ltd

Administering Organisation Monash University

Project Summary

The pristine conditions and strong wind-shear over the Southern Ocean affect the formation of precipitation in clouds over the region, which is vital to the water supply of southeastern Australia and Tasmania. This project will evaluate and improve the ability to simulate this precipitation, which will lead to better water resource management.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100137 Suzuki, A/Prof Kiyonori

Approved Project Title **Soft magnetic nanostructures for clean automotive technologies: origin of induced magnetic anisotropies**

2012 \$85,000.00

2013 \$95,351.00

2014 \$44,251.00

Total **\$224,602.00**

Primary FoR 0912 MATERIALS ENGINEERING

Partner Organisation(s)

Toyota Motor Corporation (Japan)

Administering Organisation Monash University

Project Summary

This project will clarify the mechanism of annealing-induced magnetic anisotropies in magnetic nanostructures and thereby establish a basis for further alloy development of efficient core materials for electric motors. The project outcomes will potentially lead to a significant reduction of the heat loss in petrol-electric hybrid cars.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

RMIT University

LP120100587 Blismas, A/Prof Nick G; Lingard, Prof Helen C; Stranieri, A/Prof Andrew

Approved Project Title An experimental evaluation of the usefulness of computer-supported argumentation to improve occupational health and safety in construction design

2012	\$35,000.00
2013	\$35,000.00
2014	\$35,000.00
Total	\$105,000.00

Primary FoR 1202 BUILDING

Partner Organisation(s)

Sinclair Knight Merz Limited

Administering Organisation RMIT University

Project Summary

The research investigates the potential for experts' occupational health and safety (OHS) reasoning to be reproduced in a knowledge-based system and used to: (i) augment the OHS decision-making of construction design professionals; and (ii) develop design OHS capability, especially in novices. The results will support the implementation of OHS policy in the construction industry.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Swinburne University of Technology

LP120100107 Arulrajah, A/Prof Arul; Sanjayan, Prof Jay G; Bo, Dr Myint W

Approved Project Title **Effect of geopolymer cement stabilisation on the fatigue life of pavement sub-bases with recycled demolition aggregates**

2012	\$48,000.00
2013	\$54,000.00
2014	\$40,000.00
Total	\$142,000.00

Primary FoR 0905 CIVIL ENGINEERING

Partner Organisation(s)

DST Consulting Engineers Inc, Geotesta Pty Ltd

Administering Organisation Swinburne University of Technology

Project Summary

Road sub-base construction with demolition wastes using geopolymer stabilisation will be researched as Australian stockpiles of demolition wastes, such as concrete and bricks, are growing at 15 million tons per annum. Current sub-base design methods are intended for virgin materials, hence new research is required for waste materials in sub-bases.

LP120100161 Juodkazis, Prof Saulius

Approved Project Title **Three dimensional nano-lithography: combined electron and ion beam fabrication**

2012	\$30,151.00
2013	\$30,151.00
2014	\$30,151.00
Total	\$90,453.00

Primary FoR 1007 NANOTECHNOLOGY

Partner Organisation(s)

Raith Asia Ltd

Administering Organisation Swinburne University of Technology

Project Summary

By adding one more dimension to a planar (hence two dimensional - 2D) lithography, it will become possible to structure and texture materials in three dimensions (3D) by combining electron beam lithography (2D) and ion beam milling (3D) with the highest precision of several nanometres. This will open new applications in photonics and sensing.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100264 Stoddart, Dr Paul R; Shepherd, Prof Robert K; Fallon, Dr James B; James, Dr Natalie L

Approved Project Title **Combined optical and electrical stimulation of auditory neurons**

2012	\$150,000.00
2013	\$130,000.00
2014	\$130,000.00
Total	\$410,000.00

Primary FoR 0903 BIOMEDICAL ENGINEERING

Partner Organisation(s)

Cochlear Limited

Administering Organisation Swinburne University of Technology

Project Summary

The bionic ear, which has now helped to improve the hearing of over 200,000 people worldwide, is a great example of Australian innovation success. This project aims to develop the fundamental technology that will underpin the next generation of these devices using a combination of infrared light and electrical signals to stimulate auditory nerves.

LP120100309 Thomas, Prof Julian; Houghton, Prof John W

Approved Project Title **Grey literature, policy innovation and access to knowledge: realising the value of informal publishing**

2012	\$60,000.00
2013	\$55,000.00
2014	\$60,000.00
Total	\$175,000.00

Primary FoR 2099 OTHER LANGUAGE, COMMUNICATION AND CULTURE

Partner Organisation(s)

Australian Council for Educational Research, Eidos Institute Ltd , National Library of Australia, National and State Libraries Australasia

Administering Organisation Swinburne University of Technology

Project Summary

This project examines the growth of informal research publishing, 'grey literature' in Australia, and the policies and practices that shape it. The project will make recommendations for producers, collecting institutions and policy-makers on how to maximise the considerable social and cultural benefit of 'grey literature'.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

The University of Melbourne

LP120100233 **Barlis, A/Prof Peter; Ooi, Prof Andrew; Marusic, Prof Ivan; Monty, Dr Jason P; Moore, Dr Stephen M**

Approved Project Title **Optimizing blood flow in stented arteries: a fluid mechanics approach incorporating optical coherence tomography**

2012	\$370,000.00
2013	\$156,568.00
2014	\$98,559.00
Total	\$625,127.00

Primary FoR 0915 INTERDISCIPLINARY ENGINEERING

Partner Organisation(s)

Medtronic Inc

Administering Organisation The University of Melbourne

Project Summary

Constriction in coronary arterial blood flow is a leading cause of death in Australia. Insertion of stents can rectify this problem but potentially lead to further complications. This project will use medical imaging data to construct computer models to study blood flow and particle motions in coronary arteries and improve stent designs.

LP120100490 **Bode, Dr Michael; Wintle, Dr Brendan A; Rumpff, Dr Elizabeth J; Wright, Dr John R; Benshemesh, Dr Joseph S**

Approved Project Title **Adaptive management of arid and semi-arid ecosystems**

2012	\$92,000.00
2013	\$92,000.00
2014	\$92,000.00
Total	\$276,000.00

Primary FoR 0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner Organisation(s)

Iluka Resources Ltd, Parks Victoria, Victorian Malleefowl Recovery Group

Administering Organisation The University of Melbourne

Project Summary

Australia's arid zones contain some of the world's most threatened ecosystems. Management must begin immediately, but our understanding of these fragile species and ecosystems is currently very limited. This project will develop and apply new research in Adaptive Management ('learning by doing') to ensure the persistence of these rare places.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100069 **Chantler, A/Prof Christopher T; Rassool, Dr Roger P; Kelaart, Mr Chris**

Approved Project Title **Advanced X-ray investigation of atomic and condensed matter science for Australian industry and scientific research**

2012	\$57,302.00
2013	\$54,302.00
2014	\$54,302.00
Total	\$165,906.00

Primary FoR 0204 CONDENSED MATTER PHYSICS

Partner Organisation(s)

BRUKER BIOSCIENCES PTY LTD, Berthold Australia Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

This project aims to improve the precision and calibration of measurements involving X-rays. This in turn will improve outcomes and instrumentation which utilise X-ray sources to probe structures and properties of advanced materials and biological samples.

LP120100019 **Choong, Prof Peter; Bennell, Prof Kim L; Wrigley, Mr Tim; Hinman, A/Prof Rana; Dowsey, Dr Michelle M**

Approved Project Title **Evaluating the impact of obesity on knee load over time in those who have undergone optimal surgical re-alignment after total knee replacement**

2012	\$117,700.00
2013	\$117,699.00
2014	\$117,699.00
Total	\$353,098.00

Primary FoR 1106 HUMAN MOVEMENT AND SPORTS SCIENCE

Partner Organisation(s)

Johnson & Johnson Medical Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

This project investigates the impact of obesity on alignment and knee load over time in those who have undergone total knee replacement. This information is critical for understanding whether obesity results in increasing knee load after surgery which can lead to more rapid wearing of the knee surfaces and an earlier need for revision surgery.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100526 Donnelly, Dr Paul S

Approved Project Title **Copper and gallium radiopharmaceuticals for the diagnosis and therapy of cancer**

2012	\$110,000.00
2013	\$100,000.00
2014	\$100,000.00
Total	\$310,000.00

Primary FoR 0302 INORGANIC CHEMISTRY

Partner Organisation(s)

Clarity Pharmaceuticals

Administering Organisation The University of Melbourne

Project Summary

The goal of this project is to develop the chemistry required to prepare molecular imaging and therapeutic agents for the diagnosis and treatment of certain types of cancer.

LP120100287 Edwards, A/Prof Glenn A; Brock, A/Prof James A; Hirst, Dr Christine A; Blamey, Prof Peter J; O'Connell, A/Prof Helen E

Approved Project Title **Development of an electrode assembly for the stimulation of a transplanted innervated smooth muscle sphincter**

2012	\$121,762.00
2013	\$68,000.00
2014	\$118,000.00
2015	\$58,000.00
Total	\$365,762.00

Primary FoR 1004 MEDICAL BIOTECHNOLOGY

Partner Organisation(s)

Neosphincter Technologies Pty Ltd, The Bionics Institute

Administering Organisation The University of Melbourne

Project Summary

This project will design and assess a number of different electrode designs for use in a medical device being developed for the treatment of severe stress urinary incontinence. The project will identify an optimal electrode design, which will be used in future clinical trials of the device.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100304 **Gras, Dr Sally L; Tillett, Dr Daniel; Martin, Dr Gregory J; Stickland, Dr Anthony D; Scales, Prof Peter J**

Approved Project Title **Bacteriophages for foam control in wastewater processing**

2012	\$70,000.00
2013	\$70,000.00
2014	\$70,000.00
Total	\$210,000.00

Primary FoR 0904 CHEMICAL ENGINEERING

Partner Organisation(s)

Melbourne Water Corporation, SA Water Corporation, Water Corporation of WA

Administering Organisation The University of Melbourne

Project Summary

This project will develop new strategies to reduce troublesome foaming at sewerage treatment plants in Australia. It will enable water authorities to prevent foaming events, increase wastewater treatment safety and efficiency, decrease environmental and human health impacts and aid recycling of urban and industrial wastewaters.

LP120100291 **Horan, Dr Jacqueline M; Goodman-Delahunty, Prof Jane; McKimmie, Dr Blake M; Freckelton, Prof Ian**

Approved Project Title **The presentation of expert evidence in Australian criminal trials: the role of lawyers and experts**

2012	\$30,000.00
2013	\$30,000.00
Total	\$60,000.00

Primary FoR 1801 LAW

Partner Organisation(s)

Australasian Institute of Judicial Administration, Australia New Zealand Policing Advisory Agency

Administering Organisation The University of Melbourne

Project Summary

This project will shed light on how courts, lawyers and experts can work effectively together to deliver expert evidence in the courtroom. Improving the provision and effective use of expert evidence will benefit the Australian community by providing a better quality criminal justice system.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100654 Hughes, A/Prof Richard A; Bathgate, A/Prof Ross A; Wade, Prof John D; Hossain, Dr Mohammed A

Approved Project Title Development of Insulin-like peptide 5 (INSL5) peptide analogues as novel therapeutics

2012 \$100,000.00

2013 \$80,000.00

2014 \$80,000.00

Total \$260,000.00

Primary FoR 0304 MEDICINAL AND BIOMOLECULAR CHEMISTRY

Partner Organisation(s)

Takeda Cambridge

Administering Organisation The University of Melbourne

Project Summary

Insulin-like peptide 5 (INSL5) is a naturally-occurring hormone in the body that likely plays a role in the control of appetite. This project aims to develop new molecules based on INSL5 that could be suitable for use as drugs to treat various appetite-related disorders, such as obesity (where patients eat too much) or anorexia (where patients eat too little).

LP120100204 McCormack, Prof Timothy L

Approved Project Title Optimising access to the Law Reports Series of Australia's war crimes trials, 1945-51

2012 \$55,000.00

2013 \$30,000.00

Total \$85,000.00

Primary FoR 1801 LAW

Partner Organisation(s)

Australian War Memorial, Department of Defence

Administering Organisation The University of Melbourne

Project Summary

The forthcoming Law Reports Series on Australia's war crimes trials held in 1945-51 will be, in effect, the official history of the trials. It is vital, therefore, that all users, particularly the Australian public, are provided with the necessary tools to optimally access the Series and thus obtain a comprehensive understanding of the trials.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100116 **McVernon, A/Prof Jodie; Pattison, Prof Philippa E; Nolan, Prof Terence M; Bentley, Dr Rebecca; Warr, Dr Deborah J; Mouat, Dr Clare M; McCaw, Dr James**

Approved Project Title **Networks, neighbourhoods and newborns: defining household and local area influences on social connectedness, to understand pathways to health**

2012 \$60,000.00

2013 \$51,000.00

2014 \$43,000.00

Total **\$154,000.00**

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

Broadmeadows Uniting Care, City of Boroondara, Victorian Department of Health, Victorian Health Promotion Foundation

Administering Organisation The University of Melbourne

Project Summary

Being socially connected is good for your health, but why? This project will compare social connections in Boroondara and Hume, to explore the influence of neighbourhoods on networks. With this information the project will consider potential pathways to better health outcomes, needed by agencies working to promote neighbourhood connectedness and health.

LP120100706 **Moran, Prof William; Skafidas, Prof Efstratios S; Vethecan, Dr Jerome K**

Approved Project Title **Implementation of cognitive radar techniques in resource limited radar systems**

2012 \$41,651.00

2013 \$32,000.00

2014 \$37,651.00

Total **\$111,302.00**

Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner Organisation(s)

BAE SYSTEMS Australia

Administering Organisation The University of Melbourne

Project Summary

Cognitive radar technology enables a multiple functional radar system to be built on a single chip, to be of high efficiency and low cost. Waveform design and scheduling play a key role in such a system. This project will investigate and design waveforms and scheduling methods for building a real cognitive radar system in the extremely high frequency band.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100081 **Oliver, Dr Paul M; Lee, Dr Michael S; Doughty, Dr Paul**

Approved Project Title **Islands of rocks: geckos as a model system to understand patterns of biodiversity, endemism and speciation in the Kimberley**

2012	\$65,000.00
2013	\$65,000.00
2014	\$65,000.00
Total	\$195,000.00

Primary FoR 0603 EVOLUTIONARY BIOLOGY

Partner Organisation(s)

South Australian Museum, Western Australian Museum

Administering Organisation The University of Melbourne

Project Summary

Australia is renowned for its diversity of lizards, yet a plethora of new "cryptic" gecko species continue to be discovered. The project will densely sample the complex Kimberley to understand the evolution of its geckos, which will shed light on true levels of species diversity and the geological and environmental history of this biodiversity hotspot.

LP120100529 **Palaniswami, Prof Marimuthu; Buyya, Prof Rajkumar**

Approved Project Title **Creating a smart city through internet of things**

2012	\$120,000.00
2013	\$120,000.00
2014	\$110,000.00
Total	\$350,000.00

Primary FoR 1005 COMMUNICATIONS TECHNOLOGIES

Partner Organisation(s)

Arup Pty Ltd , City of Melbourne, Sensen Networks Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

This project will deliver smart new ways of urban monitoring using ubiquitous sensing and data analysis for city management and sustainability. It will deliver researcher training, global clientele for local technology and a platform for local industry growth.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100080 **Paradies, Dr Yin C; Priest, Dr Naomi; Kowal, Dr Emma; Kelaher, A/Prof Margaret; Mansouri, Prof Fethi; McFadzean, Dr Moya P; Meehan, Ms Carolyn M; Sproul, Ms Linda M**

Approved Project Title **Using museums to counter racism and increase acceptance of diversity among young people**

2012 \$42,258.00

2013 \$75,468.00

2014 \$57,516.00

Total **\$175,242.00**

Primary FoR 1608 SOCIOLOGY

Partner Organisation(s)

Museum of Victoria, Victorian Health Promotion Foundation

Administering Organisation The University of Melbourne

Project Summary

Although little is known about the topic, racism is a significant issue for young Australians. This project will reveal how high school students and their teachers understand racism, diversity and identity. It will also determine how museum programs can reduce racism and increase acceptance of diversity among high school students and their teachers.

LP120100073 **Ridoux, Dr Julien; Veitch, Prof Darryl N**

Approved Project Title **Precision timekeeping infrastructure: bridging the hardware/software divide**

2012 \$95,000.00

2013 \$85,000.00

2014 \$80,000.00

Total **\$260,000.00**

Primary FoR 0805 DISTRIBUTED COMPUTING

Partner Organisation(s)

Symmetricom Inc

Administering Organisation The University of Melbourne

Project Summary

Accurate time is essential for critical services from telecommunications to banking, and increasingly, must be performed with software clocks within computers, using hardware clocks accessed over the Internet. This project will bridge the hardware/software divide to deliver reliable and cost effective access to precise timing.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100226 Sutton, A/Prof Philip

Approved Project Title **Understanding heat shock protein complex vaccines**

2012	\$85,000.00
2013	\$85,000.00
2014	\$85,000.00
Total	\$255,000.00

Primary FoR 1108 MEDICAL MICROBIOLOGY

Partner Organisation(s)

ImmunoBiology Limited

Administering Organisation The University of Melbourne

Project Summary

This project aims to understand the mechanism of action and formulation requirements of a novel vaccine technology that utilises heat shock protein complexes. By understanding how this technology works, future vaccines can be improved to induce the immune response required to target specific pathogens, as well as give assurance regarding its safety.

LP120100022 Vetere, Dr Frank; Ozanne, A/Prof Elizabeth A; Kulik, Dr Lars

Approved Project Title **Growing old and staying connected: touch screen technology for ameliorating older people's experience of social isolation**

2012	\$65,000.00
2013	\$65,000.00
2014	\$65,000.00
Total	\$195,000.00

Primary FoR 0806 INFORMATION SYSTEMS

Partner Organisation(s)

Alliance Perpetual, Benetas

Administering Organisation The University of Melbourne

Project Summary

Social isolation affects many older people. This project investigates novel technologies to prevent and to ameliorate social isolation experienced by older adults. This project will implement and trial a software application over an 18 month period, using a 3G connected touch-screen tablet, and evaluate its impact on alleviating social isolation.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100220 Wyn, Prof Johanna G; McCarthy, Mr Gavan J; Scott, Ms Johanna H; Walsh, Dr Lucas L

Approved Project Title Building futures for young Australians at risk: a coordinated measurement framework and data archive

2012 \$76,000.00

2013 \$67,000.00

2014 \$75,000.00

Total \$218,000.00

Primary FoR 1301 EDUCATION SYSTEMS

Partner Organisation(s)

Beacon Foundation, Dusseldorp Skills Forum, Hands On Learning Australia, Social Ventures Australia Limited , The Foundation for Young Australians

Administering Organisation The University of Melbourne

Project Summary

This project will build a national data base of evidence about and for programs that address the needs of the 16 per cent of young Australians currently at risk of school non-completion. It will generate important knowledge for program improvement and sustainability and coordination of evidence across diverse and fragmented programs.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

University of Ballarat

LP120100317 Smith, Prof Erica; Smith, Prof Andrew; Walker, Dr Arlene

Approved Project Title How do qualifications delivered by enterprises contribute to improved skill levels and other benefits for companies, workers and the nation?

2012 \$95,000.00

2013 \$85,000.00

Total \$180,000.00

Primary FoR 1301 EDUCATION SYSTEMS

Partner Organisation(s)

Abigroup Contractors , DP World Australia, Enterprise Registered Training Organisation Association, Foxtel Management , Insurance Australia Group Ltd, McDonald's Australia Limited, NSW Rural Fire Service, Qantas Airways Ltd, Queensland Rail Ltd, Rebel Group Limited, Western Health Service

Administering Organisation University of Ballarat

Project Summary

This project investigates the role of employer-based qualifications training in developing the skills and prospects of the Australian workforce and the competitive capabilities of companies. It focuses on enterprises that are accredited to deliver qualifications to their own workers, providing data to improve and expand this form of training.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Queensland

Bond University

LP120100275 Keyzer, Prof Patrick D; Finch, Prof Caroline F; Norton, Prof Kevin I; Dietrich, A/Prof Joachim; Sekendiz, Ms Betul

Approved Project Title Legal risk management of adverse health outcomes and injury in the fitness industry: developing evidence-informed regulation that improves safety

2012 \$65,511.00

2013 \$63,202.00

2014 \$83,746.00

Total \$212,459.00

Primary FoR 1801 LAW

Partner Organisation(s)

Fitness Australia, Sports Medicine Australia

Administering Organisation Bond University

Project Summary

This project analyses Australian laws, policies and practices designed to manage legal risks and liabilities in the fitness industry, and assesses their effectiveness in preventing adverse health outcomes, injuries, and the legal liability associated with those risks.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Griffith University

LP120100194 **Balfour, Prof Michael S; Moyle, Prof Wendy; Cooke, Prof Marie L; Dunn, A/Prof Julie P**

Approved Project Title **Playful engagement and dementia: understanding the efficacy of applied theatre practices for people with dementia in residential aged care facilities**

2012	\$65,000.00
2013	\$80,000.00
2014	\$55,000.00
Total	\$200,000.00

Primary FoR 1904 PERFORMING ARTS AND CREATIVE WRITING

Partner Organisation(s)

Wesley Mission Brisbane

Administering Organisation Griffith University

Project Summary

In the absence of a cure for dementia, there is an increasing recognition of the need to address its key impacts of social isolation, depressed mood and quality of life. This project will make use of a range of theatre techniques to develop improvised interactions and playful connections with the person with dementia.

LP120100021 **De Leo, Prof Diego; Kelly, Prof Brian; Stain, Dr Helen J; Milner, Dr Allison**

Approved Project Title **Influences on farmer suicide in Queensland and New South Wales**

2012	\$51,470.00
2013	\$54,444.00
2014	\$39,086.00
Total	\$145,000.00

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

Centre for Rural and Remote Mental Health Queensland, Hunter New England Local Health Network , New England Division of General Practice , Queensland Department of Communities, Queensland Health, Department of Justice, Office of the State Coroner

Administering Organisation Griffith University

Project Summary

Australian farmers have been identified as being at high-risk of suicide. This project will provide direction for targeted suicide prevention strategies by quantifying the individual and environmental factors that place farmers at higher risk of suicide, as well as the protective factors that may buffer against suicide and suicidal behaviours.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100407 **Dodson, A/Prof Jago; Burke, Dr Matthew I; Li, Dr Tiebei**

Approved Project Title **Locating jobs to improve urban sustainability: investigating the Transport Impacts of Employment Decentralisation in Australian Cities (TIEDAC)**

2012	\$70,000.00
2013	\$55,000.00
2014	\$60,000.00
Total	\$185,000.00

Primary FoR 1205 URBAN AND REGIONAL PLANNING

Partner Organisation(s)

Lend Lease Communities, Logan City Council, Springfield Land Corporation

Administering Organisation Griffith University

Project Summary

This project investigates how the relocation of public sector employment to suburban nodes can improve the efficiency of Australian cities. The project will identify transport efficiencies from employment decentralisation that can reduce infrastructure costs for governments and reduce commuting distances for Australian urban residents.

LP120100485 **Quinn, Prof Ronald J; Hofmann, A/Prof Andreas; Vandal, Dr Omar H; Kaneko, Dr Takushi**

Approved Project Title **Fragment based screening to deliver drugs targeting tuberculosis and the gametocyte and liver stages of Plasmodium**

2012	\$310,000.00
2013	\$310,000.00
2014	\$300,000.00
Total	\$920,000.00

Primary FoR 0304 MEDICINAL AND BIOMOLECULAR CHEMISTRY

Partner Organisation(s)

Bill and Melinda Gates Foundation, Global Alliance for Tuberculosis Drug Development

Administering Organisation Griffith University

Project Summary

This project will identify natural products that bind to critical proteins in malaria and tuberculosis to discover new ways to treat these diseases.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100325 **Townsend, Dr Keith J; Lawrence, Dr Sandra A; Wilkinson, Prof Adrian J; Greenfield, Dr David R**

Approved Project Title **A dynamic model linking organisational systems to clinical performance in Australian hospitals**

2012	\$41,644.00
2013	\$51,560.00
2014	\$44,973.00
Total	\$138,177.00

Primary FoR 1503 BUSINESS AND MANAGEMENT

Partner Organisation(s)

The Australian Council of Healthcare Standards

Administering Organisation Griffith University

Project Summary

With increasing pressure on the hospital sector in Australia and at a time of substantial reform, this project will have a significant impact on performance within Australian hospitals and in turn, the health and wellbeing of the Australian population. This project models the dynamic link between hospital systems and clinical performance.

LP120100492 **Zhao, Prof Huijun; Wang, A/Prof Kewen; Li, Prof Ling; Zhang, Dr Shanqing**

Approved Project Title **A new management tool for effective wastewater source control**

2012	\$135,000.00
2013	\$130,000.00
2014	\$130,000.00
2015	\$220,000.00
2016	\$210,000.00
Total	\$825,000.00

Primary FoR 0904 CHEMICAL ENGINEERING

Partner Organisation(s)

Allconnex Water, Melbourne Water Corporation, Sydney Water Corporation, Water Corporation of WA

Administering Organisation Griffith University

Project Summary

The use of recycled wastewater can dramatically increase the water supply capacity. However, the potential health risk from possible containments in recycled wastewater must be mitigated. This project aims to develop an effective wastewater source management tool for safeguarding the recycled water production and usage.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Queensland University of Technology

LP120100627 **Bruns, A/Prof Axel; Burgess, Dr Jean E; Crawford, A/Prof Kate J; Flew, Prof Terry**

Approved Project Title **Social media in times of crisis: learning from recent natural disasters to improve future strategies**

2012	\$57,000.00
2013	\$57,000.00
2014	\$74,000.00
Total	\$188,000.00

Primary FoR 2001 COMMUNICATION AND MEDIA STUDIES

Partner Organisation(s)

Eidos Institute Ltd , Queensland Department of Community Safety, Sociomantic Labs

Administering Organisation Queensland University of Technology

Project Summary

This project will analyse and evaluate how social media was used by emergency authorities, media organisations and citizens during recent natural disasters, including the January 2011 Queensland floods and Tropical Cyclone Yasi. The project will develop a framework for longer-term strategies for public communication during emergencies.

LP120100343 **Chung, Prof Edward; Lee, Dr Jinwoo (Brian); El Faouzi, A/Prof Nour-Eddin**

Approved Project Title **A novel integrated motorway management system for less congested, more reliable and safer motorways**

2012	\$120,000.00
2013	\$120,000.00
2014	\$120,000.00
Total	\$360,000.00

Primary FoR 0905 CIVIL ENGINEERING

Partner Organisation(s)

Institut Français des Sciences et Technologies des Transports, de l'Aménagement et des Réseaux, Queensland Department of Transport and Main Roads, Queensland Motorways Limited, VicRoads

Administering Organisation Queensland University of Technology

Project Summary

Motorway traffic congestion poses major economic, social and safety problems, which this project seeks to address through intelligent traffic management solutions as an alternative to massive infrastructure expansion. The project's innovative traffic analysis and control system will reduce periods of congestion and increase driver safety.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100729 Gable, Prof Guy G

Approved Project Title **Information Systems (IS)-Impact utility and intuitiveness: a rigorous approach to relevance**

2012	\$80,000.00
2013	\$80,000.00
2014	\$80,000.00
Total	\$240,000.00

Primary FoR 0806 INFORMATION SYSTEMS

Partner Organisation(s)

Accenture Australia Holdings Pty Ltd

Administering Organisation Queensland University of Technology

Project Summary

This study aims to evaluate the key elements of models used in design science to assess the impact of information systems. The work will examine the extent to which rigour and relevance are incorporated into these models.

LP120100302 Ledwich, Prof Gerard F; Dong, Prof Zhao Y; Ghosh, Prof Arindam; Chow, Prof Joe H; Palmer, Dr Edward W

Approved Project Title **Increased power transfer capacity through Static Var Compensator (SVC) control**

2012	\$200,000.00
2013	\$110,000.00
2014	\$169,892.00
Total	\$479,892.00

Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner Organisation(s)

Fujian Timely Power Company, Powerlink Queensland, SureLand Capital Group

Administering Organisation Queensland University of Technology

Project Summary

Smart grids in power transmission will enable better use of existing infrastructure reducing the required investment for moving power between states. The project proposes the use of advanced measurement and control algorithms to make a step change in the operation of the national network with focus on the Queensland-New South Wales link.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100348 **Manley, Dr Karen J; Kajewski, Prof Stephen L**

Approved Project Title **Diffusion of manufactured high performance green houses: a mixed-methods management study of innovation obstacles**

2012	\$78,000.00
2013	\$57,000.00
2014	\$63,000.00
Total	\$198,000.00

Primary FoR 1503 BUSINESS AND MANAGEMENT

Partner Organisation(s)

Building Codes Queensland, Building Commission, WA

Administering Organisation Queensland University of Technology

Project Summary

This project will improve the affordability and environmental impact of Australian housing, by increasing the rate of innovation activity within the industry. The project addresses this challenge by investigating the beliefs of builders that underpin their reticence to change. The findings are used to design educational responses to improve innovation rates.

LP120100096 **Willmott, Prof Lindy; White, A/Prof Benjamin P; Gallois, Em/Prof Cynthia; Parker, Prof Malcolm; Graves, Prof Nicholas; Winch, Dr Sarah**

Approved Project Title **Futile treatment at the end of life: legal, policy, sociological and economic perspectives**

2012	\$138,914.00
2013	\$92,167.00
2014	\$36,921.00
Total	\$268,002.00

Primary FoR 1605 POLICY AND ADMINISTRATION

Partner Organisation(s)

Royal Brisbane and Women's Hospital

Administering Organisation Queensland University of Technology

Project Summary

This project explores why and how often doctors provide treatment they believe will not benefit a patient. The project will help us to avoid harm to patients and their families caused by burdensome and unnecessary treatment, and ensure that limited community health resources are spent wisely.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

The University of Queensland

LP120100162 Alexandrov, Prof Kirill; Gambin, Dr Yann; Mahler, A/Prof Stephen M; von Hellens, Mr Henrik

Approved Project Title **Single molecule spectroscopy-guided design of thermostable industrial enzymes**

2012	\$192,000.00
2013	\$192,000.00
2014	\$192,000.00
Total	\$576,000.00

Primary FoR 0601 BIOCHEMISTRY AND CELL BIOLOGY

Partner Organisation(s)

Bioproton Pty Ltd

Administering Organisation The University of Queensland

Project Summary

The production and engineering of proteins are key methodologies in life sciences. The current project aims to develop new approaches to accelerate the production and analysis of proteins and to apply them to discover improved proteins for use as feedstock supplements.

LP120100120 Ballantyne, Prof Roy R; Packer, Dr Jan M; Smith, Dr Liam D; Falk, Prof Dr John H

Approved Project Title **Translating zoo visitors' behavioural intentions into conservation actions using evidence-based post-visit experiences**

2012	\$56,988.00
2013	\$46,096.00
2014	\$48,364.00
Total	\$151,448.00

Primary FoR 1399 OTHER EDUCATION

Partner Organisation(s)

Wildlife Conservation Society, Zoo and Aquarium Association

Administering Organisation The University of Queensland

Project Summary

This project will extend and improve the effectiveness of zoo conservation education initiatives by developing post-visit web-based learning experiences. It will enable zoos to play a greater role in developing an environmentally literate society, motivate collective action for wildlife conservation and measure achievement of mission objectives.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100249 **Burrell, A/Prof Robert G; Humphreys, Prof Michael S; Weatherall, Ms Kimberlee G; Kelly, Dr Sarah J; Burt, A/Prof Jennifer S; Richardson, Prof Megan L**

Approved Project Title **Testing trade mark law's image of the consumer**

2012 \$95,000.00

2013 \$65,000.00

2014 \$90,000.00

Total **\$250,000.00**

Primary FoR 1801 LAW

Partner Organisation(s)

Federal Court of Australia, Fosters Group Ltd, I P Australia

Administering Organisation The University of Queensland

Project Summary

An effective trade mark law is vital both to protect consumers and to allow businesses to build brand recognition. This project seeks to put Australian trade mark law on a firmer empirical footing by bringing together experts from psychology, law and marketing to test the law's assumptions against actual consumer responses.

LP120100088 **Capon, Prof Robert J**

Approved Project Title **Growing a sustainable new molecular resource**

2012 \$125,000.00

2013 \$80,000.00

2014 \$80,000.00

Total **\$285,000.00**

Primary FoR 0304 MEDICINAL AND BIOMOLECULAR CHEMISTRY

Partner Organisation(s)

Bioaustralis Pty Ltd

Administering Organisation The University of Queensland

Project Summary

This project will provide access to a unique and unexplored Australian molecular resource pre-programmed by evolution for therapeutic potential. These discoveries will enable important biomedical research and advance the development of new improved drugs that treat a diverse array of human diseases and illness.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100626 Cooper, Prof Matthew A; Young, Prof Paul R; Mahler, A/Prof Stephen M; Faddy, Dr Helen M

Approved Project Title **The first integrated multimodal assay for the ultrasensitive detection of dengue contamination of blood**

2012	\$165,000.00
2013	\$165,000.00
2014	\$160,000.00
Total	\$490,000.00

Primary FoR 1004 MEDICAL BIOTECHNOLOGY

Partner Organisation(s)

Australian Red Cross Blood Service - National Office

Administering Organisation The University of Queensland

Project Summary

This project will develop the first screening test to check for dengue contamination of blood donations in Australia. This will help ensure safe, continued supply from blood donors, particularly in Queensland where dengue is on the rise.

LP120100212 Corcoran, Dr Jonathan J; Bell, Prof Martin J; Budge, A/Prof Trevor M; McKenzie, Ms Fiona

Approved Project Title **Attraction and retention: the role of mobility in educational pathways and human capital development**

2012	\$50,000.00
2013	\$50,000.00
2014	\$50,000.00
Total	\$150,000.00

Primary FoR 1604 HUMAN GEOGRAPHY

Partner Organisation(s)

Graduate Careers Australia, Victorian Department of Planning and Community Development

Administering Organisation The University of Queensland

Project Summary

This project will examine the factors that attract and retain school leavers and tertiary graduates in cities, towns and rural areas of non-metropolitan Victoria. It will increase understanding of how spatial mobility shapes young people's transition through higher education to adulthood and guide regional development policy to enhance human capital.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100172 **Corcoran, Dr Jonathan J; Chhetri, A/Prof Prem**

Approved Project Title **Evaluating the effectiveness of fire safety programs in emergency services management**

2012	\$33,000.00
2013	\$35,000.00
2014	\$38,000.00
Total	\$106,000.00

Primary FoR 1604 HUMAN GEOGRAPHY

Partner Organisation(s)

Queensland Fire and Rescue Service

Administering Organisation The University of Queensland

Project Summary

Measuring the effectiveness of fire safety programs is critical to minimising economic costs, optimising resource utilisation and mitigating risk to individuals of injury and death. This project will be the first study to develop a methodological framework that integrates geographical, statistical and temporal analyses for their evaluation.

LP120100353 **Dargusch, Dr Matthew S; Wang, Dr Gui; StJohn, Prof David H**

Approved Project Title **Grain size refinement of near beta titanium alloys - a route to developing new advanced medical implants and devices**

2012	\$75,000.00
2013	\$70,000.00
2014	\$75,000.00
Total	\$220,000.00

Primary FoR 0912 MATERIALS ENGINEERING

Partner Organisation(s)

Cook Medical Australia Pty Ltd

Administering Organisation The University of Queensland

Project Summary

This project seeks to develop targeted material solutions for application in the manufacture of new and improved medical components, such as stents. This will be achieved by developing new biocompatible beta titanium alloys with mechanical properties and forming behaviour that are optimised for implant applications associated with endovascular procedures.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100686 **Hall, A/Prof Roy A; Khromykh, Prof Alexander A; van den Hurk, Dr Andrew F; Bielefeldt-Ohmann, Dr Helle; Kirkland, Dr Peter D**

Approved Project Title **Emergence of a virulent strain of West Nile virus causing fatal equine encephalitis in south-eastern Australia**

2012 \$130,000.00

2013 \$130,000.00

2014 \$130,000.00

Total **\$390,000.00**

Primary FoR 0707 VETERINARY SCIENCES

Partner Organisation(s)

Elizabeth Macarthur Agricultural Institute, Hunter Valley Equine Research Centre, Queensland Health

Administering Organisation The University of Queensland

Project Summary

In 2011 a large outbreak of encephalitis in horses occurred in south-eastern Australia that was caused by a new virus that is transmitted by mosquitoes and is related to West Nile virus, known to cause severe disease in humans and horses. This project will study this new virus and develop improved methods for diagnosis and control of this disease.

LP120100412 **Henry, Prof Robert J; Taware, Dr Santosh D**

Approved Project Title **Genomic strategies for reducing losses during processing and improving the nutritional value of wheat in human diets**

2012 \$65,000.00

2013 \$60,000.00

2014 \$60,000.00

Total **\$185,000.00**

Primary FoR 0607 PLANT BIOLOGY

Partner Organisation(s)

Green Gold Seeds Ltd

Administering Organisation The University of Queensland

Project Summary

Wheat breeding requires efficient tools to allow selection of varieties with both high grain yield and good functional and nutritional value. Whole genome analysis will be used to develop screening methods to deliver wheat varieties with novel processing and nutritional properties for human diets contributing to global food and nutritional security.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100575 Jimmieson, A/Prof Nerina L; Bordia, Prof Prashant

Approved Project Title A multi-level approach to the management of demands and resources to minimise the risk of psychosocial injury in the workplace

2012	\$115,396.00
2013	\$100,175.00
2014	\$107,334.00
Total	\$322,905.00

Primary FoR 1701 PSYCHOLOGY

Partner Organisation(s)

Safe Work Australia, WorkSafe Victoria, Workplace Health and Safety Queensland

Administering Organisation The University of Queensland

Project Summary

This project aims to identify ways supervisors can effectively manage workplace stress experienced by team members. Expected outcomes include better management of workplace stress and reduction in the number of employees suffering from the stress-induced ill-health, thereby reducing workers' compensation claims for stress and lowering costs.

LP120100517 Kroemer, Dr Jens O; Nielsen, Prof Lars K; Domke, Dr Susan

Approved Project Title Sustainable dollar notes and other polypropylenes from bioderived feedstocks

2012	\$160,284.00
2013	\$159,000.00
2014	\$159,000.00
Total	\$478,284.00

Primary FoR 1003 INDUSTRIAL BIOTECHNOLOGY

Partner Organisation(s)

Dow Chemical (Australia) Limited

Administering Organisation The University of Queensland

Project Summary

Fossil fuels provide us with the essential chemicals for our life style. The chemical industry recognizes limited supply and a need to reduce carbon emissions. Microbes are able to supply green chemicals (e.g. bio-ethanol), but efficiencies are often low. This project will develop microbes for the fermentative production of plastics from cane sugar.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100662 **Li, Prof Ling; Scheuermann, Dr Alexander; Wang, Prof You-Gan; Bringemeier, Dr Detlef M**

Approved Project Title **Multi-scale, two-phase flow in complex coal seam systems**

2012	\$127,800.00
2013	\$140,000.00
2014	\$110,000.00
Total	\$377,800.00

Primary FoR 0907 ENVIRONMENTAL ENGINEERING

Partner Organisation(s)

Australian Coal Research Ltd, Rio Tinto Coal Australia Pty Ltd

Administering Organisation The University of Queensland

Project Summary

Australia is the world's leading coal exporter and a large consumer of coal. This project aims to fill key knowledge gaps that underpin the challenge facing the coal industry and environmental agencies in assessing the impact of coal mining on the surrounding environment, in particular, adjacent river and groundwater systems.

LP120100297 **Lynch, Prof Joseph W; Sah, Prof Pankaj**

Approved Project Title **New tools to activate and silence neural circuits**

2012	\$153,511.00
2013	\$152,711.00
2014	\$152,711.00
Total	\$458,933.00

Primary FoR 1109 NEUROSCIENCES

Partner Organisation(s)

NuNerve Pty Ltd

Administering Organisation The University of Queensland

Project Summary

Many neurological disorders occur as a result of neuron cell death that is initiated by excessive levels of excitatory activity in central nervous system neurons. This project will develop and validate a new treatment for these disorders that involves silencing excessive neuronal activity using a safe, commonly prescribed drug.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100692 Maenhaut, Dr Barbara M

Approved Project Title Virtual transport networks

2012	\$50,000.00
2013	\$45,000.00
Total	\$95,000.00

Primary FoR 0802 COMPUTATION THEORY AND MATHEMATICS

Partner Organisation(s)

Jeppesen Rail Logistics and Terminals

Administering Organisation The University of Queensland

Project Summary

This project will develop specialised time-dependent networks for use in algorithmic software testing and development, focussing on public transportation networks, but applicable elsewhere. The virtual transport networks developed in this project will significantly reduce the cost of producing software products that perform network searches.

LP120100141 Mills, Prof Martin D; McGregor, Dr Glenda V

Approved Project Title Marginalised students: enhancing life choices through engaging educational policies and practices

2012	\$30,000.00
2013	\$30,000.00
2014	\$30,000.00
Total	\$90,000.00

Primary FoR 1301 EDUCATION SYSTEMS

Partner Organisation(s)

Youth Affairs Network of Queensland

Administering Organisation The University of Queensland

Project Summary

This project explores the provision of existing alternative/flexible learning pathways in Queensland for young people who have become disengaged from mainstream schooling. It seeks to assess educational principles and practices that work in such sites so as to develop a framework of educational 'best practice' that may inform this sector.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100664 Pratt, Dr Steven; Lant, Prof Paul A; Pratt, Dr Christopher

Approved Project Title **Adsorption on activated alumina: mitigating fouling of water treatment processes caused by deposition of silica, organics and hardness ions**

2012	\$80,651.00
2013	\$46,651.00
2014	\$39,651.00
Total	\$166,953.00

Primary FoR 0904 CHEMICAL ENGINEERING

Partner Organisation(s)

Australia Pacific LNG Pty Ltd

Administering Organisation The University of Queensland

Project Summary

Coal seam gas offers tremendous economic potential but development of gas reserves will generate considerable quantities of saline water. This project will develop activated alumina technology for the removal of silica and organics from these waters to enable the industry to use evaporative technologies to reduce water volumes.

LP120100670 Pratt, Dr Steven; Slater, Dr Frances R; Lant, Prof Paul A; Schenk, A/Prof Peer M

Approved Project Title **Stabilisation of algal biomass harvested from coal seam gas associated water to generate a renewable, high nutrient resource**

2012	\$30,000.00
2013	\$48,700.00
2014	\$40,000.00
Total	\$118,700.00

Primary FoR 1003 INDUSTRIAL BIOTECHNOLOGY

Partner Organisation(s)

Australia Pacific LNG Pty Ltd

Administering Organisation The University of Queensland

Project Summary

This project will develop composting technology to stabilise the biomass harvested from coal seam gas ponds. A feature of the project is consideration of toxic algal metabolites, and the potential for the release and degradation of these compounds during stabilisation.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100209 Skilleter, A/Prof Greg A; Degnan, Dr Sandie M; Degnan, Prof Bernard M; Peterson, Prof Charles H; Shirley, Prof Thomas C

Approved Project Title Science on the continental shelf: securing our deep-sea biodiversity for the future

2012	\$130,000.00
2013	\$110,000.00
2014	\$115,000.00
Total	\$355,000.00

Primary FoR 0602 ECOLOGY

Partner Organisation(s)

Australian Oceanographic Foundation

Administering Organisation The University of Queensland

Project Summary

This project signals the start of exciting new research using manned submersibles to explore and describe the rich biodiversity inhabiting Australia's deep-sea continental shelf. The outcomes will provide a sound basis for managing these environmental treasures against the pressing need to use the oil and gas reserves that lie under the seabed.

LP120100063 Tangen, Dr Jason M; Edmond, Prof Gary; Norman, Prof Geoffrey R; Eva, A/Prof Kevin W; Dror, Dr Itiel; Lovell, Prof Brian C; McCarthy, Mr Duncan; Comber, Mr Bruce

Approved Project Title Forensic reasoning and uncertainty: identifying pattern and impression expertise

2012	\$91,000.00
2013	\$80,000.00
2014	\$80,000.00
2015	\$81,000.00
Total	\$332,000.00

Primary FoR 1702 COGNITIVE SCIENCE

Partner Organisation(s)

Australian Federal Police, Forensic and Data Centres, National Institute of Forensic Science Australia, ANZPAA, Queensland Police Service

Administering Organisation The University of Queensland

Project Summary

Maintaining high standards of evidence is vital for an effective justice system and ensuring that innocent people are not wrongly accused. This project aims to improve the reliability of forensic evidence and the value of expert testimony in the criminal justice system by examining forensic decision making.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100282 Turner, Dr Mark S; Beatson, Dr Scott A; Godwin, Prof Ian D; Powell, Dr Ian B

Approved Project Title Smarter fermentations through starter culture genomics

2012	\$145,000.00
2013	\$125,000.00
2014	\$63,000.00
Total	\$333,000.00

Primary FoR 0605 MICROBIOLOGY

Partner Organisation(s)

Dairy Innovation Australia Ltd

Administering Organisation The University of Queensland

Project Summary

Australia makes over \$1 billion dollars worth of cheese each year, however fermentation can be adversely affected by virus (phage) attack or sub-optimal strain mixtures. The latest genomics and molecular biology approaches will be used to characterise and optimise starter culture strains leading to improved flavour, quality and efficiency in cheese making.

LP120100737 Whittaker, Prof Andrew K; Blakey, A/Prof Idriss; Trefonas, Dr Peter i; Thackeray, Dr James W

Approved Project Title Next generation high sensitivity polymeric Extreme Ultraviolet (EUV) resists

2012	\$120,000.00
2013	\$120,000.00
2014	\$120,000.00
Total	\$360,000.00

Primary FoR 0303 MACROMOLECULAR AND MATERIALS CHEMISTRY

Partner Organisation(s)

Dow Chemical (Australia) Limited

Administering Organisation The University of Queensland

Project Summary

Each generation of computer we purchase has faster processors, larger memory and is smaller and cheaper than the preceding model. However the annual improvements are at risk due to inherent problems with existing technologies, so in this project we will produce technologies that will enable the next generation of energy-efficient, faster computers.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

South Australia

The Flinders University of South Australia

LP120100426 Bull, Prof Christopher M; Hutchinson, Dr Mark N

Approved Project Title Conservation management of the endangered Pygmy Bluetongue Lizard

2012	\$125,000.00
2013	\$65,000.00
2014	\$80,000.00
2015	\$140,000.00
2016	\$100,000.00
Total	\$510,000.00

Primary FoR 0602 ECOLOGY

Partner Organisation(s)

Nature Foundation SA, SA Department of Environment And Natural Resources, South Australian Murray Darling Basin Natural Resource Management Board, South Australian Museum, Zoos SA

Administering Organisation The Flinders University of South Australia

Project Summary

There is a second chance to rescue a lizard species that was recently considered extinct. This project builds on biological knowledge about the lizard to develop programs for monitoring and maintaining viable populations, to advise landholders of management options, and to inform and involve local communities in conservation action.

LP120100405 Coveney, Prof John; Ward, Prof Paul R; Henderson, Dr Julie A; Elliott, Prof Anthony M; Meyer, Dr Samantha; Caraher, Prof Dr Martin; Webb, Dr Trevor J; Calnan, Prof Michael W

Approved Project Title Trust makers, breakers and brokers: building trust in the Australian food system

2012	\$45,000.00
2013	\$35,000.00
Total	\$80,000.00

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

Food Standards Australia New Zealand, SA Department of Health

Administering Organisation The Flinders University of South Australia

Project Summary

This research will compare and contrast the way that food trust is managed in Australia and the United Kingdom, with a particular focus on how trust is damaged and repaired. Using consensus-testing processes, best practice models will be developed to assist government, industry, media and consumer groups to build and maintain trust in the food supply.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100218 **Swalwell, Dr Melanie L; de Vries, Dr Denise B; Ndalianis, A/Prof Angela; Welch, Dr Ian S; Marshall, Dr Stuart R; Corbett, Mrs Susan; Lange, Mr Andreas; Bergmeyer, Dr Winfred**

Approved Project Title **Play it again: creating a playable history of Australasian digital games, for industry, community and research purposes**

2012 \$52,000.00

2013 \$86,000.00

2014 \$48,000.00

Total **\$186,000.00**

Primary FoR 1902 FILM, TELEVISION AND DIGITAL MEDIA

Partner Organisation(s)

Australian Centre for the Moving Image, Berlin Computerspiele Museum, The New Zealand Film Archive, Victoria University of Wellington

Administering Organisation The Flinders University of South Australia

Project Summary

This project provides a unique account of the role played by computer games in familiarising the public to new technologies. The computer game industry grosses billions of dollars each year, and yet game technology is quickly superseded. This project redresses this gap by writing histories of the early digital age, and preserving key artefacts.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

The University of Adelaide

LP120100553 Ankeny, A/Prof Rachel A; Manning, Ms Catherine

Approved Project Title **Hostel stories: toward a richer narrative of the lived experiences of migrants**

2012	\$30,000.00
2013	\$30,000.00
2014	\$30,000.00
Total	\$90,000.00

Primary FoR 2103 HISTORICAL STUDIES

Partner Organisation(s)

City of Charles Sturt, City of Port Adelaide Enfield, Migration Museum, State Records of South Australia, Vietnamese Community in Australia

Administering Organisation The University of Adelaide

Project Summary

This project will examine stories relating to the migrant experience among former residents of hostels located in South Australia in the period 1949-85. The main aim is to develop a more complex narrative of the lived reality of migrants in this critical period of Australian contemporary history.

LP120100152 Facelli, A/Prof Jose M; Austin, Prof Andrew D; Cooper, A/Prof Steven J; Stevens, Dr Mark I; Faast, Dr Renate

Approved Project Title **Effects of fire on the reproductive ecology of terrestrial orchids and on their pollinators in fragmented landscapes of southern Australia**

2012	\$92,000.00
2013	\$90,000.00
2014	\$90,000.00
Total	\$272,000.00

Primary FoR 0602 ECOLOGY

APDI Dr Renate Faast

Partner Organisation(s)

Nature Foundation SA, SA Department of Environment And Natural Resources, SA Water Corporation, South Australian Forestry Corporation, South Australian Museum, The Australian Orchid Foundation

Administering Organisation The University of Adelaide

Project Summary

This project will combine traditional plant and insect ecology with advanced molecular techniques to ascertain the effects of fire management on terrestrial orchids and their pollinators in fragmented landscapes. This will improve our understanding of the Australian biota and improve management and conservation of terrestrial orchids.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100652 Gillanders, Prof Bronwyn M; Bradshaw, Prof Corey J; Donnellan, Prof Steven C; Huveneers, Dr Charlie

Approved Project Title Seascape genetics for shark management: an innovation in sustainable fisheries modelling

2012 \$100,000.00

2013 \$95,000.00

2014 \$95,000.00

Total \$290,000.00

Primary FoR 0604 GENETICS

Partner Organisation(s)

Marine Fishers Association, Nature Foundation SA, SA Department of Primary Industries and Resources, South Australian Museum, WA Department of Fisheries

Administering Organisation The University of Adelaide

Project Summary

This project will use novel genetic, chemical and spatial modelling techniques to assess the long-term viability of bronze whaler and dusky shark fisheries in southern Australia. Results will be used to implement sustainable management of the fisheries to ensure persistence of these threatened sharks.

LP120100228 Gillanders, Prof Bronwyn M; Kelaher, Adj/Prof Brendan P; Connell, A/Prof Sean D; Figueira, Dr Will F; Coleman, Dr Melinda A; Goldsworthy, A/Prof Simon D

Approved Project Title Temperate trophic cascades: impacts of seal foraging on benthic community dynamics

2012 \$77,000.00

2013 \$70,000.00

2014 \$70,000.00

Total \$217,000.00

Primary FoR 0602 ECOLOGY

Partner Organisation(s)

NSW National Parks and Wildlife Service, NSW Office of Environment and Heritage, Nature Foundation SA, SA Department of Environment And Natural Resources

Administering Organisation The University of Adelaide

Project Summary

Effective Marine Protected Area management across Australia requires guidance from rigorous strategic research. The project will investigate opposing activities that provoke ecosystem collapse (overharvesting, grazing) or recovery (marine park protection) and provide advice to improve effectiveness of marine conservation strategies in New South Wales and South Australia.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100201 **Hrmova, A/Prof Maria; Lopato, Dr Sergiy; Tingey, Dr Scott V; Sivasankar, Dr Sobhana (Shoba) V**

Approved Project Title **Enhancing stress tolerance in plants by manipulation of properties of stress responsive transcription factors**

2012	\$151,000.00
2013	\$140,000.00
2014	\$140,000.00
Total	\$431,000.00

Primary FoR 0601 BIOCHEMISTRY AND CELL BIOLOGY

Partner Organisation(s)

Dupont Pioneer

Administering Organisation The University of Adelaide

Project Summary

This project will describe structural and functional properties of cereal transcription factors that are critical to plant development under hostile environmental conditions. The knowledge of the revealed molecular mechanisms of transcription factors will open avenues to developments of improved crop plants.

LP120100648 **Lowe, Prof Andrew J; Degen, Prof Dr Bernd**

Approved Project Title **Developing DNA tracking methods to identify illegally logged timber products from Africa**

2012	\$93,000.00
2013	\$90,000.00
2014	\$90,000.00
Total	\$273,000.00

Primary FoR 0604 GENETICS

Partner Organisation(s)

Johann Heinrich von Thuenen Institute

Administering Organisation The University of Adelaide

Project Summary

Illegal logging causes societal and environmental forest degradation, and is a high priority for international control. This project will produce a range of DNA methods that allow the tracing of the geographic source of origin for timber products from African tropical forests that will allow producers and consumers to better market and choose their products.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100483 **Monro, Prof Tanya M; Taylor, Prof Dennis K; Rose, Ms Louisa E; Lattey, Ms Kate A; Jones, Mr Iain**

Approved Project Title **Smart Bungs for wine monitoring**

2012	\$140,000.00
2013	\$125,000.00
2014	\$140,000.00
Total	\$405,000.00

Primary FoR 0205 OPTICAL PHYSICS

Partner Organisation(s)

Fosters Group Ltd, Orlando Wyndham Group Pty Ltd, The Yalumba Wine Company

Administering Organisation The University of Adelaide

Project Summary

'Smart Bung' sensors will use optical fibres to monitor wine production using only nano- to microlitre-scale volumes, significantly reducing wastage and improving quality. They will serve as 'early warning devices' and will ensure that Australia's wine industry maintains its outstanding international reputation for excellence and innovation.

LP120100102 **Plewa, Dr Carolin; Sweeney, Prof Jillian C; Zurbruegg, Prof Ralf; Michayluk, Prof David M**

Approved Project Title **Funding our future: perceptions of the value of financial planning advice**

2012	\$30,000.00
2013	\$40,000.00
2014	\$30,000.00
Total	\$100,000.00

Primary FoR 1505 MARKETING

Partner Organisation(s)

Financial Services Council

Administering Organisation The University of Adelaide

Project Summary

This project will examine how perceptions of the value of financial planning advice are formed over time. If this is understood then both government and the industry can develop better strategies to encourage those who can benefit from financial advice to recognise and gain value from the service.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100155 Warin, Dr Megan J; Moore, A/Prof Vivienne M; Ward, Prof Paul R; Jones, Dr Michelle G

Approved Project Title An ethnographic study of obesity risk in a disadvantaged community

2012	\$68,409.00
2013	\$60,227.00
2014	\$34,249.00
Total	\$162,885.00

Primary FoR 1601 ANTHROPOLOGY

Partner Organisation(s)

City of Playford, SA Department of Health

Administering Organisation The University of Adelaide

Project Summary

This project will investigate how families who are seen as 'at risk' of developing obesity respond to Australia's largest obesity intervention, and if messages about healthy eating and increased physical activity are acted upon. Information gathered will provide an important context for what works (and doesn't work) in obesity intervention.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

University of South Australia

LP120100714 Hattam, A/Prof Robert J; Comber, Prof Barbara M; Hayes, A/Prof Debra N

Approved Project Title **Educational leadership and turnaround literacy pedagogy**

2012	\$70,000.00
2013	\$60,000.00
2014	\$55,000.00
Total	\$185,000.00

Primary FoR 1302 CURRICULUM AND PEDAGOGY

Partner Organisation(s)

SA Department of Education and Children's Services

Administering Organisation University of South Australia

Project Summary

This project will provide new ways of thinking about school reform for improving literacy achievement in high poverty contexts. The project will examine the ways in which new forms of educational leadership are developing in South Australian public schools and its effects on school culture, pedagogy and student literacy learning.

LP120100606 Hayball, Dr John D; Sproston, Ms Kylie; Chapman, A/Prof Marianne J

Approved Project Title **The development of a potent new passive immunotherapeutic for the treatment and prevention of bacterial sepsis and septic shock**

2012	\$63,000.00
2013	\$60,000.00
2014	\$60,000.00
Total	\$183,000.00

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

BTG Australasia P/L, Royal Adelaide Hospital

Administering Organisation University of South Australia

Project Summary

Bacterial sepsis and septic shock is a leading cause of death in hospital intensive care units and represents a significant public health burden. By developing a new passive immunotherapeutic regimen to treat and prevent bacterial sepsis and septic shock, the project aims to reverse the significant mortality and morbidity associated with this condition.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100519 Xian, Prof Cory J; Morris, Prof Howard A; Gregory, Mr Christopher L

Approved Project Title Towards a cost-effective therapy for osteoporosis using Australian indigenous emu oil

2012	\$100,000.00
2013	\$100,000.00
2014	\$100,000.00
Total	\$300,000.00

Primary FoR 1103 CLINICAL SCIENCES

Partner Organisation(s)

Emu Tracks Australasia Pty Ltd

Administering Organisation University of South Australia

Project Summary

Emu oil has a potent anti-inflammatory property. This project aims to show in rodents whether its use can overcome the inflammatory condition and osteoporosis caused by aging, menopause and cancer chemotherapy. This research could lead to development of an emu oil-based therapy for major health problems and have immense social and economic implications.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Western Australia

Curtin University of Technology

LP120100435 Buckley, Prof Craig E; Davies, Dr Ian J; Paskevicius, Dr Mark P; Sheppard, Dr Drew A; Harries, Prof David N

Approved Project Title Concentrating solar thermal energy storage using metal hydrides

2012	\$285,000.00
2013	\$166,272.00
2014	\$186,000.00
Total	\$637,272.00

Primary FoR 0912 MATERIALS ENGINEERING

APDI Dr Mark P Paskevicius, Dr Drew A Sheppard

Partner Organisation(s)

EMC Solar Ltd

Administering Organisation Curtin University of Technology

Project Summary

This project will investigate energy storage for concentrating solar thermal energy systems. These systems can be used to efficiently generate electricity in remote locations, day and night, using solar energy. The solar energy is converted to heat energy and then chemical energy stored in a metal-hydrogen compound.

LP120100347 Love, Prof Peter E; Ekambaram, Dr Palaneeswaran; Smith, Prof Dr James; Davis, Prof Peter R

Approved Project Title Infrastructure project delivery: a life cycle evaluation model for public private partnerships

2012	\$30,000.00
2013	\$30,000.00
2014	\$30,000.00
Total	\$90,000.00

Primary FoR 0905 CIVIL ENGINEERING

Partner Organisation(s)

John Holland Pty Ltd, WA Department of Treasury and Finance

Administering Organisation Curtin University of Technology

Project Summary

Governments continue to embrace public-private partnerships so as to obtain value for money and provide financial accountability to taxpayers. This project will determine the most appropriate way to engage the private sector in infrastructure delivery and develop a dynamic life cycle evaluation model to ensure projects are delivered effectively and efficiently.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Edith Cowan University

LP120100685 Hope, Dr Catherine A; Green, Prof Lelia R; Mahoney, Mr Tos; Fyfe, Ms Allison J; Adams, Mr Stephen R; Holmes, Ms Robyn F

Approved Project Title The Western Australia New Music Archive: 1970 - today: finding, accessing, remembering, performing

2012 \$67,000.00

2013 \$66,000.00

2014 \$87,000.00

Total \$220,000.00

Primary FoR 1904 PERFORMING ARTS AND CREATIVE WRITING

Partner Organisation(s)

Australian Broadcasting Corporation, National Library of Australia, State Library of Western Australia, Tura New Music

Administering Organisation Edith Cowan University

Project Summary

This project sees the creation of the Western Australian New Music Archive, a digital repository of and interface to Western Australian music composed from 1970 to the present day. A partnership between peak state and national bodies, the project will also involve the performance and recording of works from the archive.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

The University of Western Australia

LP120100097 Faraone, Prof Lorenzo; Dell, Prof John M; Silva, Prof Buddhika D; Antoszewski, Prof Jarek; Basedow, Dr Robert W

Approved Project Title Adaptive multispectral imaging system for remote sensing applications

2012	\$260,000.00
2013	\$200,000.00
2014	\$140,000.00
Total	\$600,000.00

Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner Organisation(s)

Goodrich Corporation, ISR Systems

Administering Organisation The University of Western Australia

Project Summary

The many applications of remote sensing include environmental/crop monitoring, oil/mineral exploration, and aerospace/defence. However, remote sensing stands to benefit greatly from infrared spectral imaging devices. This project will develop the technology for an infrared spectral imaging system, suitable for numerous remote sensing applications.

LP120100668 Fiorentini, Dr Marco; Brugger, A/Prof Joel; Perring, Dr Caroline S; Liu, Dr Weihua; Barnes, Dr Stephen J

Approved Project Title Hydrothermal remobilisation of base metals and platinum group elements in magmatic nickel deposits

2012	\$65,000.00
2013	\$65,000.00
Total	\$130,000.00

Primary FoR 0402 GEOCHEMISTRY

Partner Organisation(s)

WA Department of Mines and Petroleum

Administering Organisation The University of Western Australia

Project Summary

Magmatic nickel sulphide deposits are highly valuable but extremely challenging exploration targets, thought to lack the distinctive geochemical haloes that allow small targets to be identified from sparse drilling. The project will test the potential of hydrothermal remobilisation of nickel, cobalt and platinum group elements to create broad alteration haloes.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100350 Grierson, A/Prof Pauline F; Krauss, Dr Siegfried L; Price, A/Prof Charles A; Dixon, Prof Kingsley W; Thiele, A/Prof Kevin R

Approved Project Title Defining biologically significant units in spinifex (*Triodia* spp.) for improved ecological restoration in arid Australia

2012	\$165,000.00
2013	\$110,000.00
2014	\$115,000.00
2015	\$159,000.00
Total	\$549,000.00

Primary FoR 0604 GENETICS

Partner Organisation(s)

Chevron Australia Pty Ltd, Rio Tinto, WA Botanic Gardens and Parks Authority, WA Department of Environment and Conservation

Administering Organisation The University of Western Australia

Project Summary

This project will investigate composition and functioning of the iconic spinifex grasslands of arid Australia. The findings will increase the capacity to restore these landscapes after mining. Project outcomes directly address the national priority for sustainable use of Australia's biodiversity, particularly of vulnerable ecosystems.

LP120100310 Grierson, A/Prof Pauline F; Skrzypek, Dr Grzegorz D; Turney, Prof Chris S; Greenwood, Dr Paul F; Cook, Dr Charlotte G; Dogramaci, Dr Shawan

Approved Project Title Climate-related regime shifts in inland semi-arid ecosystems through ecohydrological proxies

2012	\$120,000.00
2013	\$110,000.00
2014	\$100,000.00
Total	\$330,000.00

Primary FoR 0406 PHYSICAL GEOGRAPHY AND ENVIRONMENTAL GEOSCIENCE

Partner Organisation(s)

Rio Tinto

Administering Organisation The University of Western Australia

Project Summary

This project will investigate the dynamics of climate, especially rainfall, of the northwest of Australia over the last few thousand years. Our findings will increase understanding of climate variability and contribute to sustainable management of water and biodiversity in semi-arid Australia.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100520 **Grounds, Prof Miranda D; Shavlakadze, Dr Thea; Cocks, Prof Benjamin G; Brown, Dr Andrew G**

Approved Project Title **Benefits of NatraGuard (a milk-derived protein) on skeletal muscle mass and development: in vivo and in vitro investigations in mice**

2012	\$150,000.00
2013	\$140,000.00
2014	\$140,000.00
Total	\$430,000.00

Primary FoR 0699 OTHER BIOLOGICAL SCIENCES

Partner Organisation(s)

Murray Goulburn Cooperative Pty Ltd, Victorian Department of Primary Industries

Administering Organisation The University of Western Australia

Project Summary

The capacity of NatraGuard (derived from milk) to increase the mass of skeletal muscles will be scientifically investigated; in vivo using growing and adult mice and with muscle cells in culture to identify the novel mechanism of this hypertrophic effect. This research has many potential clinical, agricultural and commercial applications.

LP120100314 **Roberts, Prof John D; Coates, Dr David J; Byrne, Dr Margaret**

Approved Project Title **Managing genetic diversity and evolutionary processes in foundation species for landscape restoration in the midwest of Western Australia**

2012	\$120,000.00
2013	\$90,000.00
2014	\$90,000.00
Total	\$300,000.00

Primary FoR 0603 EVOLUTIONARY BIOLOGY

Partner Organisation(s)

Karara Mining Ltd, WA Department of Environment and Conservation

Administering Organisation The University of Western Australia

Project Summary

This project analyses genetic structure in four key plant species used for post mining restoration across the midwest. It will provide guidelines for seed collections that ensure planted populations will persist at altered sites after mining and that planted and natural populations can adapt to changing future environmental conditions.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100023 Wernberg, Dr Thomas; Gurgel, Dr Carlos F

Approved Project Title Long-term changes in the phenology of Australia's temperate marine macroalgae: has climate change impacted the world's most diverse algal flora?

2012 \$80,000.00

2013 \$80,000.00

2014 \$80,000.00

Total \$240,000.00

Primary FoR 0501 ECOLOGICAL APPLICATIONS

Partner Organisation(s)

Botanic Gardens of Adelaide and State Herbarium of SA, SA Department of Environment And Natural Resources

Administering Organisation The University of Western Australia

Project Summary

Looking back at herbarium specimens collected over the past 100 years, this project will reconstruct a historical baseline of reproduction in Australian seaweeds. This unique opportunity to rigorously assess the extent of recent changes in response to ocean warming, will help secure the continued existence of the most species rich marine flora in the world.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

Australian Capital Territory

The Australian National University

LP120100272 Elliman, Prof Robert G; England, Dr Jonathan G; Kurunczi, Dr Peter

Approved Project Title Controlling the forming and switching characteristics of non-volatile resistive memory devices using ion-implantation

2012 \$120,000.00

2013 \$100,000.00

2014 \$115,000.00

Total \$335,000.00

Primary FoR 0204 CONDENSED MATTER PHYSICS

Partner Organisation(s)

Varian Semiconductor Equipment Associates

Administering Organisation The Australian National University

Project Summary

This project will develop new techniques for improving the reliability and endurance of a new class of non-volatile memory devices for use in portable electronics and embedded electronic systems. Such developments are essential for the development of next-generation devices.

LP120100327 Gordon, Dr David M

Approved Project Title E. coli as an indicator of faecal contamination in the Australian context

2012 \$150,000.00

2013 \$170,000.00

2014 \$101,000.00

Total \$421,000.00

Primary FoR 0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner Organisation(s)

City West Water, Fitzroy River Water, Hunter Water Corporation, Melbourne Water Corporation, SA Water Corporation, South East Queensland Water, South East Water, Sydney Catchment Authority, Sydney Water Corporation, Victorian Department of Health, Water Corporation of WA, Yarra Valley Water

Administering Organisation The Australian National University

Project Summary

The goal of this research is to improve our ability to use Escherichia coli as an indicator of water quality by determining the extent to which non-faecal sources of E. coli contribute to coliform counts and to develop a method to differentiate non-faecal E. coli from those that are faecal derived.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100448 **Heinsohn, Prof Robert; Sukkarieh, A/Prof Salah; Raidal, A/Prof Shane R; Martin, Dr Tara G**

Approved Project Title **The endangered swift parrot as a model for managing small migratory birds**

2012	\$105,000.00
2013	\$90,000.00
2014	\$90,000.00
Total	\$285,000.00

Primary FoR 0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner Organisation(s)

Bush Heritage Australia, Forest Practices Authority, Loro Parque Fundación , Tasmanian Department of Primary Industries, Parks, Water and Environment, Zoos SA

Administering Organisation The Australian National University

Project Summary

Endangered swift parrots use variable locations while breeding in eastern Tasmania and over winter on the Australian mainland. This project aims to develop effective conservation strategies for swift parrots and other migrants using new and long term data and innovative technological solutions to tracking small birds across vast landscapes.

LP120100359 **Mavrogenes, A/Prof John; Henley, Dr Richard W**

Approved Project Title **Geochemistry of ore metals at very high temperatures**

2012	\$80,000.00
2013	\$70,000.00
2014	\$70,000.00
Total	\$220,000.00

Primary FoR 0402 GEOCHEMISTRY

Partner Organisation(s)

Newcrest Mining Ltd

Administering Organisation The Australian National University

Project Summary

The world's largest copper and gold mines occur in extinct volcanoes around the Pacific Rim. Understanding how these essential metals are mobilised from magmas in the roots of volcanoes to become ore deposits and how to recognize where this has occurred is crucial in exploration for new deposits.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

LP120100446 Reynolds, A/Prof Katherine J; Subasic, Dr Emina; Tropp, A/Prof Linda; Hewstone, Prof Miles R; Davis, Ms Anita; Fox, Mr James

Approved Project Title **Building successful diverse communities: what works and why?**

2012	\$74,375.00
2013	\$50,570.00
2014	\$90,680.00
Total	\$215,625.00

Primary FoR 1701 PSYCHOLOGY

Partner Organisation(s)

Department of Immigration and Citizenship

Administering Organisation The Australian National University

Project Summary

This project is focused on strengthening locally-based interventions to maximise community harmony in the context of demographic diversity (ethnic, cultural, religious). It also will strengthen the relationship between world-leading researchers and senior policy experts and provides valuable research training for three junior scholars.

LP120100527 Steinhauser, Dr Ralf; Aisbett, Dr Emma K; Brueckner, Dr Markus; Pan, Ms Liyi

Approved Project Title **Estimating the impact of fiscal stimulus on household expenditure**

2012	\$50,820.00
2013	\$30,000.00
Total	\$80,820.00

Primary FoR 1402 APPLIED ECONOMICS

Partner Organisation(s)

Department of Treasury

Administering Organisation The Australian National University

Project Summary

The tax bonus payments of the \$42 billion Nation Building and Jobs Plan were among the largest fiscal policy packages in the developed world. This project applies a new methodology to estimate the short-term impact of this cash handout on consumer spending, allowing better modelling of the Australian economy.

Summary of Successful Proposals for Linkage Projects Round 1 for Funding Commencing in 2012 by State and Organisation

University of Canberra

LP120100624 Duncan, Prof Alan S; Biggs, Prof Simon J; Gong, Dr Honge; Kimberley, Dr Helen E; Bowman, Dr Dina D

Approved Project Title Understanding and preventing workforce vulnerabilities in midlife and beyond

2012	\$132,541.00
2013	\$117,341.00
2014	\$124,941.00
Total	\$374,823.00

Primary FoR 1402 APPLIED ECONOMICS

Partner Organisation(s)

Brotherhood of St Laurence, Jobs Australia Ltd

Administering Organisation University of Canberra

Project Summary

This project brings together frontline service agencies with researchers from two universities to study involuntary non-participation and under-participation in the labour market by midlife Australians. Quantitative and qualitative approaches will be used to understand pathways and outcomes so as to inform policy and practice responses.