

RESEARCHERS IN BUSINESS



An Australian Government Initiative



Shaping Business, Transforming Industry

Summary of Projects as at December 2011

PROJECTS IN PROGRESS

SME Recipient	Research Organisation	Purpose	Value GST Inclusive	Grant Term (months)	Grant Funding Location
AB Mauri Technology and Development Pty Ltd	University of New South Wales	The aim of this project is to investigate the molecular mechanisms of yeast metabolite production that have the most impact on the aroma and flavour characteristics of bread in order to improve the sensory experience for the consumer.	\$55,000	12	NSW, Chatswood, 2067
Adelaide Research & Innovation Pty Ltd	University of Adelaide	The purpose of this project is to improve the sensitivity of a new sensing technology "VESPR" being developed by the Institute for Photonics & Advanced Sensing (IPAS) at the University of Adelaide. VESPR is a novel Surface Plasmon Resonance sensor that can measure very small changes in surface density. This project is about improving the sensitivity for very rapid flu virus sensing which represents a significant step towards commercialisation.	\$55,000	12	SA, Adelaide, 5000
Australian Defence Apparel Pty Ltd	CSIRO	This project will establish a pilot plant for manufacturing shapeable ceramic products using CSIRO technical knowledge.	\$55,000	12	VIC, Coburg, 3058
Australian Rollforming Manufacturers Pty Ltd	Deakin University	Research analysis of optimal profiles for lightweight structural members.	\$33,203	10	VIC, Dandenong, 3175
Aviva Pure Pty Ltd	RMIT	The purpose of this project is to develop, build and test a pilot ECube™: an evaporation accelerator system which reduces the size and cost of evaporation ponds and reduces the volume of waste brine sent to the environment.	\$18,395	6	VIC, Notting Hill, 3168

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Aviva Pure Pty Ltd	Monash University	The purpose of this project is to develop a new patented system to prevent permanent fouling and to facilitate cleaning and removal of fouling substances from water treatment membrane systems.	\$53,488	12	VIC, Notting Hill, 3168
Biocane Ltd	University of Queensland / UniQuest Pty Ltd	The purpose of this project is to develop a finite element model utilising turbulent flow in a multi-phase domain to analyse steam flow in a novel super heated dryer.	\$55,000	12	QLD, Nambour, 4560
Botanical Resources Australia Pty Ltd	CSIRO	The project involves the separation of pyrethrum components to improve the quality of pyrethrum and to develop new products from pyrethrum.	\$54,129	12	TAS, Sandy Bay, 7005
Bruck Textiles Pty Ltd	CSIRO	The project plans to develop improved camouflage fabrics to counter new developments in low light surveillance technology. This will involve the development of dye and printing systems that give a better match to the background reflectance on cotton and polyester cotton blend fabrics.	\$55,000	12	NSW, Rosebery, 2018
Clean Teq Ltd	Curtin University of Technology	The project aims to develop technology to increase the water recovery for desalination.	\$49,205	8	VIC, Dandenong South, 3175
Dolomatrix International Ltd	CSIRO	The project plans to adapt the Plascon System to produce carbon nanomaterials and also to improve its current primary function of safely destroying hazardous chemicals and gases.	\$55,000	12	VIC, Laverton North, 3026
Duplex Cleaning Machines Pty Ltd	RMIT	To develop a robot system that primarily has an embedded floor technology and secondarily the robot can track and move around using the newly developed embedded floor technology. It can also drive around obstacles by using the InfraRed sensors system.	\$55,000	12	VIC, Northcote, 3070

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Echelon Mining Services Pty Ltd	CSIRO	The project plans to develop a Remote Mining Engineer (VME) which will combine technologies and processes that enables mining engineers to work and deliver expertise to mines in remote locations.	\$32,471	4	QLD, Mackay, 4740
Explain IT Pty Ltd	University of Tasmania	The purpose of this project is to use various contemporary and emerging models to develop and validate a new business and marketing model for using social media to promote a novel product.	\$17,970	4	TAS, North Hobart, 7002
Galaxy Lithium Australia Ltd	CSIRO	The project plans to have direct in-situ determination of Lithium (Li) and other elements in Li-bearing minerals, including micas in the Mt. Cattlin pegmatite sheets and to use these analyses to provide baseline data sheets.	\$55,000	12	WA, West Perth, 6005
Geodynamics Ltd	CSIRO	The purpose of the project is to optimise drill bit design and operating parameters for the drilling of hard granite sections.	\$55,000	4	QLD, Milton, 4064
Hunting Lady Pty Ltd	RMIT	Applying polymer/nano materials on fabric for next to the skin textile applications.	\$18,094	10	VIC, Brooklyn, 3012
Inflatable Packers International Pty Ltd	University of Western Australia	Mathematical modelling of the characteristics of inflatable packers.	\$35,750	12	WA, Osborne Park, 6017
Intec Limited	CSIRO	The project plans to establish qualitative proof of concept and identify a suitable solvent extraction system for the separation and recovery of Neodymium and Dysprosium from the leach solution.	\$45,016	3	TAS, Burnie, 7320
iSoft Australia Pty Ltd	Australian National University	The project will introduce and evaluate the effectiveness of a novel approach to Model Driven Engineering (MDE) within the context of iSOFT's MedChart and other 'brown-field' projects. The new approach has potential to significantly increase software development and maintenance productivity within new and existing projects.	\$53,310	11	NSW, Sydney, 2000

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Jurlique International Pty Ltd	Flinders University	The purpose of this project is to develop new experimental separation protocols for the chemical characterisation of plant raw materials and extracts. This will yield a more detailed understanding of the complex biological mixture of the natural products.	\$55,000	12	SA, Mount Barker, 5251
Lipotek Pty Ltd	Australian National University	The project will endeavour to investigate the application of the Lipotek Lipovaxin platform technology for the development of novel targeted therapies including vaccines and immunotherapies.	\$54,862	12	ACT, Acton, 2601
Living Green Designer Homes Pty Ltd	University of Technology Sydney	The project will assess and review existing Living Green Designer Home designs and specifications with regards to environmental sustainability, to establish current strengths and identify opportunities for further improvement.	\$24,616	10	NSW, Bensville, 2251
Mannatech Pty Ltd	University of South Australia	The purpose of this project is to develop a sustainable approach to research into the use of Australian plants for sugar-based products and the influence they have on brain activity. This will increase the commercial opportunities for the firm and lead to possible new products.	\$55,000	12	NSW, St Leonards, 2065
Mining Logic Solutions Pty Ltd	Central Queensland University	The purpose of this project is to develop the NEXSYS at Peabody project which will research the requirements to integrate electronic, manual and historic data acquisition systems and produce a software package to be located in the mines' control room. The software will have a singular database containing all the mines' data requirements to monitor principle hazards.	\$55,000	12	QLD, Mackay, 4740
Neutrog Australia Pty Ltd	Flinders University	Work will focus on determination of viable bacterial, identification of beneficial microbes and optimization of the decomposition of the feedstock which is critical in substantiating the claims made that this product is a probiotic for plants.	\$35,511	9	SA, Kanmantoo, 5252

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Nextgen Reality Pty Ltd	Queensland University of Technology	The purpose of this project is to explore the factors that influence people's motivations to play and levels of engagement with videogames on mobile devices.	\$44,000	12	QLD, Robina, 4226
Partech Systems Pty Ltd	University of Wollongong	To develop and market a low cost solar powered level crossing controller (SPLCC) system for use in rail applications.	\$55,000	12	NSW, Yerrilyong, 2540
Pivot Maritime International Pty Ltd	University of Newcastle	The project aims to upgrade Pivot's ability to provide accurate and effective simulation for port development research by integrating reflected swell into the simulation.	\$55,000	12	TAS, Legana, 7277
Relay Monitoring Systems Pty Ltd	Victoria University	The purpose of this project is to develop a number of optic fibre arc sensors.	\$38,573	7	VIC, Mulgrave, 3170
Rocky Point Power Project Pty Ltd	Queensland University of Technology	The purpose of this project is optimisation of biomass fuelled renewable power generation. It will develop new strategies to reduce the volume of waste water, the reduction of arsenic levels and reduce the temperature of the flue gas and use the heat to create power and super refrigeration.	\$55,000	12	QLD, Woongoolba, 4207
Rosebank Engineering Pty Ltd	Monash University	The purpose of this project is to obtain quantifiable results of the application of Supersonic Particle Deposition on damaged thin metallic aerospace skins and validate the observed behaviour through further analytical and finite element modelling.	\$55,000	12	VIC, Bayswater, 3153
Sapphicon Semiconductor Pty Ltd	La Trobe University	The overall aim of this project is to develop a system on a chip wide band receiver that will miniaturise the receiver circuitry on a radio telescope.	\$55,000	12	NSW, Sydney Olympic Park, 2127

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Seafish Tasmania Pty Ltd	University of Tasmania	The purpose of the project is to engage a specialist in fish oil refining to develop new high value products fit for human consumption.	\$49,145	12	TAS, Triabunna, 7190
Spatial Scientific Pty Ltd	University of Melbourne	The purpose of this project is to develop an airborne mapping system which integrates a range of different imaging and measurement sensors.	\$53,932	12	SA, Glenelg South, 5045
Specialty Coatings (Aust) Pty Ltd	CRC for Advanced Composites	To undertake research on achieving adhesion performance between photovoltaic cells and resin impregnated glass materials.	\$55,000	12	VIC, Moorabbin, 3189
Taste Master Pty Ltd	Flinders University	The purpose of this project is to develop experimental separation protocols for the chemical characterisation of food flavourings and perfumes. This will allow the identification and quantification of molecular compounds in the complex mixture of these products.	\$54,618	12	SA, Lonsdale, 5160
United Surface Technologies Pty Ltd	Deakin University	The development of surface treatment by thermochemical diffusion into metals.	\$55,000	12	VIC, Altona, 3018
Unleashed Technology (Aust) Pty Ltd	University of Sydney	This project aims to identify where information technology can improve work process efficiency and effectiveness through a study of community and residential aged care facilities in Victoria and New South Wales.	\$54,960	12	WA, Bentley, 6102
Vaxine Pty Ltd	Flinders University	The purpose of this project involves chemical modification and structural investigation of self-assembling systems to enable improved vaccines and manufacturing techniques.	\$55,000	12	SA, Bedford Park, 5042

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Vectus Biosystems Pty Ltd	CSIRO	The project plans to synthesise structural analogues from new experimental protocols. This will enable Vectus Biosystems to subsequently plan, design and optimise future manufacturing strategies for these new manufacturing processes and protocols.	\$55,000	3	NSW, Rosebery, 2018
VCAMM Ltd	Swinburne University of Technology	The project will conduct qualitative research on the innovation management and commercialisation pathways that face both entrepreneurs at start-up and established SMEs - specifically in the advanced manufacturing sector. From this analysis, opportunities will be identified for how VCAMM can support these networks of entrepreneurs and SMEs.	\$54,957	11	VIC, Knoxfield, 3180
WTG Pty Ltd	CRC for Advanced Composites	Provision of technical expertise leading to the commercialisation of large diameter, high performance, carbon-reinforced, pultruded rod. Technically support a new process development for the manufacture of highly engineered hollow fibre-reinforced tube.	\$41,579	12	NSW, Kurnell, 2231

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PROJECTS COMPLETED

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Advanced Lifestyle International Pty Ltd	University of South Australia	The project will provide validation for a new range of products under development to support the use of cycloidal vibration therapy by athletes.	\$17,976	5	SA, Melrose Park, 5039
Angelakis Marketing Pty Ltd	South Australian Research and Development Institute (SARDI)	The project involves researching and evaluating an alternative biocide technology.	\$15,801	3	SA, Adelaide 5000
Artists Technologies Pty Ltd	University of Melbourne	This project will assist in the development of statistical and visualisation tools that will be incorporated into new data capture and analysis software being created for surgeons by Hello Medical Pty Ltd. Data acquisition and analysis tools will also be used to underpin the development of user-friendly decision support tools for surgeons.	\$11,000	4	VIC, Carlton, 3053
Arden Architectural Pty Ltd	Griffith University	The overall aim of this project is to refine, develop and deploy a software system for generating and applying dynamic (flexible) 3D geometric models with integrated logical operations for automated architectural design, specification and quoting.	\$42,659	12	QLD, Virginia, 4014
ATSA Defence Services Pty Ltd	University of Sydney	This project will provide ATSA with objective strategy, technology innovation deployment and new and emerging evidence-based approaches for marketing disruptive technology innovations, with corresponding marketing strategy models and tactics to enable the firm to commercially deploy and exploit the innovation rapidly.	\$11,146	4	NSW, Thornton, 2322

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Australasian Resource Consultants Pty Ltd	University of Queensland / UniQuest Pty Ltd	The aim of the project is to research and develop new Greenhouse Gas abatements plans which are a new requirement under EIS processes.	\$14,395	3	QLD, Taringa, 4068
Bioproton Pty Ltd	University of Queensland / UniQuest Pty Ltd	The project will develop enzymes with superior characteristics via an integrated rational design and directed evolution approach	\$55,000	12	QLD, Sunnybank, 4109
BSES Pty Ltd	University of Queensland / UniQuest Pty Ltd	The aim of this project is to assist in the analysis of sugar cane characteristics that have a direct impact on the efficiency of biofuel production but for which the knowledge of genetic architecture and elite genotypes is lacking.	\$42,900	12	QLD, Indooroopilly, 4068
BTG Australasia Pty Ltd	University of South Australia	Assistance in the search for new intensive-care medicines.	\$54,966	12	SA, Rosedale, 5350
BT Imaging Pty Ltd	CSIRO	The project aims to develop image processing solutions for implementation in BT Imaging's products.	\$54,273	6	NSW, Surry Hills, 2010
CAP-XX (Australia) Pty Ltd	CSIRO	Further develop supercapacitors for use in devices such as mobile phones, digital cameras and Personal Digital Assistants (PDA).	\$55,000	12	NSW, Lane Cove, 2066
Churchill Abattoir Management Pty Ltd	University of Southern Queensland	The project aims to determine the feasibility of retrofitting renewable energy and energy efficiency improvements to an existing operational meat processing plant.	\$30,387	12	QLD, Churchill, 4305
Copeland Industries Pty Ltd	Flinders University	Assess the suitability of a number of new commercially available engineering plastics for pipe manufacturing by extrusion, as well as their suitability for use in various new applications.	\$26,213	6	SA, Lonsdale, 5160

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Dairy Innovation Australia Ltd	Monash University	To undertake a series of case studies to demonstrate the use and evaluate the potential impact of the application of advanced process modelling techniques in dairy ingredient manufacturing.	\$53,873	12	VIC, Werribee, 3030
Darrell Lea Chocolate Shops Pty Ltd	CSIRO	The project will determine the possible causes of liquorice hardening and develop solutions that can overcome this.	\$5,165	6	NSW, Kogarah, 2217
Ductair Pty Ltd	University of South Australia	To determine the impact on the greenhouse gas emissions, running costs and energy consumption of commonly used ducting on heating and cooling equipment in buildings for Adelaide.	\$18,810	3	SA, Dry Creek, 5094
Factive Pty Ltd	University of New South Wales	The aim of this project is to assist Factive develop an action research mentor program that can assist firms in responding to safety incidents resulting from masculinity issues in the workplace.	\$7,157	3	WA, Northbridge, 6003
Flinders Partners Pty Ltd	Flinders University	The project will deliver a software library that can create and control a speaking animated 3D character (head & shoulders) on a mobile device platform.	\$51,051	9	SA, Bedford Park, 5042
Gelita Australia Pty Ltd	University of Queensland	To assess the feasibility of an available process to remove and recycle salts and sulphides used in gelatin manufacture so creating the worlds first zero chemical input gelatin manufacturing process.	\$55,000	12	QLD, Beaudesert, 4285
Groundworks (Aust) Pty Ltd	University of Queensland / UniQuest Pty Ltd	The project will deliver information on sequestered emission levels on sites already using Groundworks' product.	\$10,925	2	QLD, Wacol, 4076
La Casa Del Formaggio Pty Ltd	South Australian Research and Development Institute (SARDI)	Improving cheese manufacturing efficiency and systematic cheese product development.	\$49,155	12	SA, Glynde, 5070

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Lakeco Pty Ltd	Bond University	The project will use various contemporary and emerging models and methodologies of marketing innovation to validate a new marketing strategy for the PV solar sector.	\$12,459	3	NSW, Lismore, 2480
Mining Logic Ltd	CSIRO	The project focuses on research and design of a user interface for the Nexsys Real-Time Risk Management System.	\$37,760	3	QLD, Mackay Harbour, 4740
Phoenix Corporation Pty Ltd	University of Tasmania	The purpose of this project is to assess the benefits of a Closed Loop Electronic Medication Management System (CLEMM) from trials. CLEMM is an innovative hardware and software bundle that has been designed to improve medication compliance by elderly patients.	\$25,602	4	TAS, Ulverstone, 7315
Recom Engineering Pty Ltd	Curtin University of Technology	To determine the carbon footprint of both a new and remanufactured 25hp compressor for the refrigeration and air conditioning industry.	\$9,517	3	WA, Osborne, Park, 6017
Regen Power Pty Ltd	Curtin University of Technology	Design mobile phone towers that can run on wind or solar energy.	\$55,000	12	WA, Canning, Vale, 6155
Secure Systems Ltd	Curtin University of Technology	Utilise the skills and experience of Don Griffiths to research and develop trusted applications for the Mini Silicon Data Vault (SDV).	\$55,000	11	WA, Osborne, Park, 6017
Sirtex Technology Pty Ltd	University of Sydney	The project aims to develop a new software dosimetry mapping tool to support and enable the current SirSpheres radiation therapy for liver cancer to achieve substantially more effective patient outcomes through more targeted treatments.	\$55,000	12	NSW, Lane Cove, 2066
Textor Technologies Pty Ltd	CSIRO	Develop a novel nonwoven textile suitable for application in hygiene products.	\$55,000	12	VIC, Tullamarine, 3043

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UniQuest Pty Ltd	University of Queensland	The development of a new telehealth device.	\$55,000	12	QLD, St Lucia, 4067
United Bonded Fabrics Pty Ltd	RMIT	The project will develop, test and analyse a performance enhanced recycled cotton and other cellulosic fibres.	\$11,610	6	VIC, Coburg North, 3058
Very Small Particle Company Pty Ltd	University of Queensland	The project will improve the performance of the cathode powders VSPC produce by testing the powders in battery format and subjecting the cells to rigorous electrochemical diagnosis.	\$55,000	12	QLD, Wacol, 4076
Ziltek Pty Ltd	CSIRO	The project aims to develop spectroscopic methods to detect contaminants in polluted soils.	\$55,000	12	SA, Kent Town, 5071