



Science, Technology & Innovation

Infrastructure Grants Program 2005

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Victoria's Science, Technology and Innovation Initiative

Background

The Victorian Government recognises that innovation is the key to value creation and maintenance of living standards, and that failure to invest in new knowledge risks us being left behind. That is why it has committed around \$1 billion to building the Innovation State since it was elected.

The centrepiece of this commitment is the *Science, Technology and Innovation (STI) Initiative*. The first generation of the STI Initiative was launched in 1999-2000 and projects under this \$310 million, five-year initiative are already demonstrating economic, social and environmental benefits for the State.

Following this success a second tranche of \$310 million over five years for the STI Initiative – Second Generation was announced in October 2002 as part of the Government's Innovation Statement *Victorians. Bright Ideas. Brilliant Future*.

Since 2000, the STI Initiative has funded around 50 collaborative projects, with a significant proportion focused on building physical infrastructure to underpin Victoria's science and technology base. This base is contributing to the Government's *Growing Victoria Together* aims of creating a thriving economy and improving our health and the environment.

STI Infrastructure Grants Program

The competitive *STI Infrastructure Grants Program* is one of the premier programs under the STI Initiative. It is also the biggest State grants investment program in science and technology infrastructure in Australia. Grants support the acquisition and development of new private and public sector infrastructure in Victoria across research and industry sectors and strategic technologies.

A major aim of the Program is to invest in collaborative industry and research sector projects that enhance opportunities for the translation of knowledge and research into the marketplace. This strategy has resulted in projects successfully attracting Commonwealth, industry, and

philanthropic funds to consolidate research, development and demonstration activities.

Launch of Infrastructure Grants Round Three

In May 2004, the Minister for Innovation called for applications for Round Three of the STI Infrastructure Grants Program valued at up to \$60 million.

Applicants could request funding in the following infrastructure categories:

- Physical capital – purpose built facilities, laboratories, machinery and equipment
- Human and social capital – skilled personnel, including scientists, engineers, R&D managers, entrepreneurs and supporting networks
- Structural capital – governance structure, management and administrative arrangements

The Program objectives are to build on existing strengths, to bridge critical gaps, or to advance Victoria's science, technology and innovation base. Key features include:

- Building new capabilities in research and industry sectors that catalyse new levels of R&D, innovation, and industry development
- Enabling new levels of collaboration and cross-disciplinary interaction between researchers and industry. Projects reflect strong partnerships and can be public/public, public/private or private/private ventures
- Demonstration of sustainable benefits to industry and the research community where the pooling and sharing of facilities, resources, skills and capabilities is actively encouraged
- Facilitating earlier involvement between industry and the research sector to encourage joint investment in projects that focus on the application and demonstration of research
- Attracting and retaining internationally recognised researchers, and supporting Victorian industries to become internationally competitive

Conditions for program funding require:

- A focus on the benefits to Victoria that the project outcomes will deliver
- Contributions by consortium members of at least matching funding on a 'dollar for dollar' basis
- Readiness of project implementation
- Evidence of project viability beyond funding period
- Development of an overall project management strategy, encompassing all elements from establishing science and technology objectives through to establishment of sound governance and management arrangements

All of the applications were assessed by an independent panel made up of experts from industry and research sectors with wide technical and business experience.

Final Selection Round Three Grants

In Round Three, 154 preliminary applications were received, compared with 136 in Round Two and 120 in Round One. The Round Three applications contained more interstate and international collaborations in addition to a significant increase in industry participation.

The independent panel recommended funding for 17 projects. The projects span a number of industry areas across metropolitan and provincial Victoria set out in Table 1 below.

Table 1

Sector	Number of projects	Estimated total project value (\$m)	STI grant (\$m)
Agrifood	2	9.25	4.00
Environment Technologies	4	30.13	11.25
Health and Pharmaceutical	6	70.79	27.85
Advanced Manufacturing	4	31.47	10.55
Information and Communication Technologies	1	9.30	3.30
Total	17	150.94	56.95

Of the 17 recommended projects:

- Six projects are led by private sector companies
- One project is being led by a hospital network
- Three projects are led by public research organisations
- Seven projects are led by university consortia

Six of the recommended projects are either fully located, or have significant linkages in regional centres including Churchill, Woodend, Bendigo, Geelong (two projects) and Dookie. Total STI funding for these six projects is \$15.75 million.

All of the projects will undertake some research and development activities, while 14 of the 17 projects also have demonstration components. This represents a shift further along the innovation cycle that will continue adding value to the technologies under development.

The selected projects are considered to have the best prospect of making an enduring difference to Victoria's standing as the leading location for research and development, innovation and research commercialisation.

A summary of each successfully funded project is outlined in the following pages of this booklet.



Regional and Economic Benefits through Smarter Irrigation

The sustainable future of our primary industries depends upon Victorians finding better and more efficient ways to manage our environment.

Combining the intellectual skills of the University of Melbourne and the National Information and Communications Technology Australia Ltd; the operational expertise of Goulburn Murray Water; and the innovative skills of the irrigation community; this project will target development and demonstration of smart water management systems. These smart water management systems will be supported by advanced wireless sensor technology to increase economic water efficiency (profit per megalitre) in the dairy, horticulture and viticulture industries.

The project will deliver economic, social and environmental benefits to the Goulburn Valley and contribute to the Victorian export economy.

Funding

\$1.50 million towards the development of two pilot trials and six on-farm demonstrations of smart irrigation management systems in the Goulburn Valley. Total project cost is estimated at \$4.25 million.

Founding Consortium Members

The University of Melbourne

National Information and Communications
Technology Australia Ltd

Goulburn Murray Water

Contact

Professor John Langford, The University
of Melbourne

Victorian Centre for Advanced Materials Manufacturing

The Victorian Centre for Advanced Materials Manufacturing (VCAMM) represented a new model in collaborative research when it was funded under STI Initiative Round Two.

VCAMM is a virtual facility that provides analytical services and materials research to the manufacturing industry. VCAMM focuses on demonstrating opportunities in advanced materials to industry. It acts as a one-stop-shop to solve specific problems by assisting industry to access skills and infrastructure that supports its specific needs.

New activities will include demonstration of lightweight automotive technologies, low cost rapid tooling and metal alloys for biomedical applications.

Funding

\$5.0 million towards developing capabilities focused on coating technologies, a vehicle dynamics laboratory, residual stress measurement in materials, and lightweight structures. Total project value is estimated at \$17.657 million.

Founding Consortium Members

Victorian Centre for Advanced Materials Manufacturing Ltd
Deakin University
Monash University
CSIRO

New Consortium Members

La Trobe University
Swinburne University of Technology

Affiliates

Australian National University
University of Wollongong
CAST CRC

Contact

Mr Brad Dunstan, VCAMM



Advanced Ceramic Materials for Armour Applications

Australian Defence Apparel Pty Ltd (ADA) has been actively involved in the manufacture and supply of body armour to police and military forces nationally and internationally for over a decade. This has included the manufacture and supply of soft armour vests and composite hard armour inserts to achieve various levels of ballistic protection, as well as for weight and other dimensional and operational requirements.

ADA has developed silicon carbide ceramic technology. It plans to undertake further research and development of unique materials that will enhance ballistic protective performance. These unique materials are highly desirable because of their significant weight savings compared to the traditional ceramic composite armour materials. They are also more cost effective to manufacture.

ADA and CSIRO will work together to establish a pilot scale production facility in Bendigo for advanced ceramic materials to produce samples suitable for ballistic testing. It will also provide the basis for further materials development and production expansion for other industry applications.

Funding

\$950,000 over three years towards the development of pilot production facilities in Bendigo to confirm the results of research and development by producing samples of suitable size for ballistic testing. Total project value is estimated at \$2.61 million.

Founding Consortium Members

Australian Defence Apparel Pty Ltd
CSIRO-Manufacturing & Infrastructure
Technology

Contact

Mr Wayne Klintworth, Australian Defence
Apparel Pty Ltd

Quantum Communications Victoria - Industry Development Initiative

Quantum communications is centred on the ability to send data over large distances quickly and aims to provide absolute security for data transfer. The key to this rapidly expanding industry is the reliable production, and effective transmission and detection of single photons (single visible light particles).

The Quantum Communications Victoria – Industry Development Initiative (QCV-IDI) builds on existing local and overseas expertise to provide Victoria with the opportunity of becoming a global hub for innovative activity in this new industry.

QCV-IDI will seek to develop quantum communication technology from the proof-of-concept stage to the prototype stage. The project will seek to develop a hub of activity for single photon work and will provide a test bed facility for examining the quality of single photon devices, testing of telecommunications criteria and the study of quantum based systems for security. The new technology will provide new levels of fabrication precision and will open new avenues of research in nanotechnology and photonics.

Funding

\$3.30 million over three years towards the design of commercial devices that both produce and utilise single photons for absolute security in data transfer. Total project value is estimated at \$9.295 million.

Founding Consortium Members

The University of Melbourne

MagiQ Inc. (USA)

Silicon Graphics Inc. (USA)

Qucor Pty Ltd. (Aus)

Contact

Dr Shane Huntington, The University of Melbourne



Australian Centre for Health Care Innovation

The global healthcare market is valued at \$US7 trillion and growing fast. The Australian Centre for Health Care Innovation will be a major new resource for Victoria and Australia, promoting major investment and commercial opportunities.

The Centre aims to provide a testbed for the development and evaluation of innovative health care technologies and patient safety approaches.

Based at the Alfred Medical Research and Education Precinct, the Centre's key strategy is to provide an environment that can effectively simulate real clinical settings that enhance training and product testing. The Centre will enable the effective development, demonstration and testing of novel technologies that assess critical human factor issues. Users of the facility will include companies such as DuPont and Intel.

Most importantly, the Centre will offer a single point of contact for industry and health care providers allowing timely and efficient product development.

Funding

\$4.95 million towards construction and fit-out of a test bed facility for innovative product demonstration projects for improved patient safety. Total project value is estimated at \$18.25 million.

Founding Consortium Members

Bayside Health
Baker Heart Research Institute
Monash University
La Trobe University

Affiliates

Stryker Corporation
DuPont
Intel
IBM
Cook Group Australia
Medtronic
Anatomics
SyncMed
Software Design
CRC MedSeed
Alcidion

Contact

Ms Cathie Steele, Bayside Health

Victorian Tissue Bank Initiative

Over 22,000 Victorians are diagnosed with, and more than 9,000 people die from cancer each year. At present, Australia has no large-scale dedicated tumour tissue banking facility. The Victorian Tissue Bank Initiative (VTBI) aims to provide a co-ordination point for access to existing tissue banks and for the expansion of clinically annotated adult and paediatric tissue samples for cancer research.

The VTBI will facilitate and enhance novel molecular diagnostic capabilities, improve the effectiveness of existing therapies, and guide development of new therapeutics. It will also conduct multi-centre projects and provide accredited facilities to exploit the trend towards the linkage of diagnostics with targeted therapies (theranostics).

By supporting Victoria's key cancer research organisations the VBTI is expected to maximise opportunities for Victoria through the creation and development of new intellectual property, as well as attract local and international commercial partners for cancer diagnosis and therapy.

Funding

\$7.0 million towards underpinning platform resources for research, development and clinical outcomes for cancer applications, and to boost health and pharmaceutical capabilities. Total project value is estimated at \$16.0 million.

Founding Consortium Members

Cancer Council Victoria
Peter MacCallum Cancer Centre
Austin Health
Monash Medical Centre
Melbourne Health

Affiliates

Box Hill Hospital
Cabrini Hospital
Epworth Hospital
Freemasons Hospital
Ludwig Institute for Cancer Research
Murdoch Childrens Research Institute
Royal Women's Hospital
St. Vincent's Hospital
TissuPath Pty Ltd
The Walter & Eliza Hall Institute of Medical Research
Victorian Breast Cancer Research Consortium
Victorian Transplantation and Immunogenetics Service
Western Health

Contact

Ms Woody McPherson, Cancer Council of Victoria
Dr Geoff Lindeman, Melbourne Health



Advanced Centre for Automotive Research and Testing

The Advanced Centre for Automotive Research and Testing (ACART) aims to be a leading research and testing centre in the Asia-Pacific region. This Centre will position Victoria as an active participant in the growth of advanced automotive technologies.

ACART will provide the local automotive and transport industries with state-of-the-art infrastructure and highly skilled personnel for advanced automotive research and testing.

The Centre will be located at two nodes – the Ford Australia Proving Ground near Geelong and at the University of Melbourne. ACART will establish a new emissions facility, an environmental laboratory testing facility (both located at Ford Australia), and an engine dynamometer facility (at the University of Melbourne). Together these facilities will ensure that Victorian-based automotive manufacturers can continue to develop world-class products with increasing sophisticated technology.

ACART's capabilities will span fundamental research studies of novel automotive technologies, through to testing and certification of existing products.

Funding

\$6.70 million towards development of the three facilities for research and testing of emission reducing technologies for new engines. Total project value is estimated at \$18.0 million.

Founding Consortium Members

Ford Motor Company of Australia Limited
The University of Melbourne

Contact

Mr Grant Felton, Ford Motor Company of Australia Limited

Dr Michael Brear, The University of Melbourne

Centre for Medical Bionics

Bionics is the use of electrical or mechanical equipment such as artificial limbs or cochlear implants to augment or replace biological parts.

The Centre for Medical Bionics will build on the renowned international track record of the Bionic Ear Institute to further investigate advances in bionics and related technologies. Its ultimate aim is to develop new generation bionics technology and devices of major medical and economic benefit to the Victorian and broader communities.

The Centre will target key disease areas of significant burden to the community.

With an integrated bionics technology and industry development platform in place the Centre will provide the interface between Australian medical bionics expertise and potential industry partners.

Funding

\$6.0 million towards establishment of the Centre for Medical Bionics. Total project value is estimated at \$12.0 million.

Founding Consortium Members

Bionic Ear Institute

St Vincent's Hospital (Melbourne) Centre for Neurosciences and Neurological Research

CSIRO, Molecular Sciences

CSIRO, Textile Fibre Technology

University of Wollongong, Intelligent Research Institute

PolyNovo Biomaterials Pty Ltd

Contact

Professor Graeme Clark, Bionic Ear Institute



Small Scale Technology Cluster

Small Scale Technologies involves engineering at a molecular scale and is impacting on a diverse range of industries worldwide. The Small Scale Technologies Cluster (STC) Ltd will uniquely build upon Victoria's science and manufacturing excellence in its biotechnology, polymer microfabrication, pharmaceutical, food packaging, automotive, defence and health industries to create new business opportunities, services and products.

STC represents collaboration between key sector stakeholders: universities, industry and research groups. It aims to address market failures in the provision of prototype services and low volume manufacturing facilities. The key objective of the project is to create a cluster of new small scale technology manufacturing-based industries in Victoria that build on the existing manufacturing resources of the State.

The consortium plans to deliver – through a range of showcase projects – enhanced microfabrication services, a bioprocessing facility and an incubation centre for 'high-tech' companies. As a product realisation centre for small scale technologies, the STC will attract investment to Victoria.

Funding

\$3.50 million towards establishment of the STC. Total project value is estimated at \$9.0 million.

Founding Consortium Members

MiniFab Pty Ltd
Australian Advanced Technology Enterprise Centre
Defence Science and Technology Organisation
Caribbean Park
CSIRO, Molecular Science
Wilkore
Amcor Australasia
Biota
Monash University
Swinburne University
The University of Melbourne
SeerPharma
TNA

Contact

Mr Michael Wilkinson, MiniFab Pty Ltd
Professor Erol Harvey, MiniFab Pty Ltd

Gippsland Regional Automation Centre

Mechanical-electronic (mechatronic) and advanced control systems are becoming increasingly important to the bottom line of regional-based industries. The Gippsland Regional Automation Centre (GRACe) aims to become a world-class centre in the application of advanced engineering automation in key Gippsland industries.

GRACe will be developed in two phases: the initial phase includes the establishment of the Centre and collaborative demonstration pilot projects with lead companies from regional industries to solve specific identified operational problems. Phase two will build on the successful demonstration of pilot projects to develop a comprehensive market development program targeting the deployment of similar solutions to regional industry small-to-medium enterprises.

The Centre also plans to attract and train high quality engineering personnel with the necessary skills to support regional industries.

Funding

\$500,000 over three years towards the establishment of GRACe for the benefit of industries in the Gippsland region. Total project value is estimated at \$1.0 million.

Founding Consortium Members

Monash University – Churchill Campus
ACES Pty Ltd

Affiliates

LEFCOL Pty Ltd
Milka-Ware
GBP Exports Pty Ltd

Contact

Associate Professor Yousef Ibrahim, Monash University, Churchill campus



Retinal Vascular Imaging Centre

The Retinal Vascular Imaging Centre (RetVIC) will develop leading capabilities in the diagnostic analysis of retinal images for the early prediction of vascular diseases. RetVIC's program seeks to validate the 'proof-of-principle' that retinal vascular changes predict risks of heart disease, stroke, diabetes, hypertension, dementia and other vascular conditions.

The project will develop advanced computer-based imaging systems, as well as coordinate and conduct clinical trials and community screening studies to demonstrate the clinical utility of retinal imaging for risk prediction. A key focus is the development of a valid and cost-effective system to image the vasculature of the retina, enabling the annual analysis of 20,000 high quality retinal images.

The facility will be located at the Royal Victorian Eye and Ear Hospital. The new consortium will draw on significant industry collaborations within Australia and build on existing joint research with overseas research institutions. RetVIC plans to extend its collaborative model to include a range of new organisations that have not had traditional links with eye research.

Funding

\$2.0 million over three years towards establishment of RetVIC at the Royal Victorian Eye and Ear Hospital. Total project value is estimated at \$6.34 million.

Founding Consortium Members

Centre for Eye Research Australia Ltd
The University of Melbourne
Baker Heart Research Institute
International Diabetes Institute
Royal Melbourne Hospital
Royal Victorian Eye & Ear Hospital
Monash University
The Alfred Hospital
University of Wisconsin
Centre for Vision Research (University of Sydney)
Diabetes Australia Ltd
Pfizer Australia Pty Ltd
St Vincent's Hospital Ltd
Box Hill Hospital

Affiliates

BSC Electronics Pty Ltd
Eastern Clinical Research Unit
National Stroke Research Institute

Contact

Associate Professor Tien Wong, Centre for Eye Research Australia Ltd

Centre for Power Transformer Monitoring, Diagnostics and Life Management

Maintaining and upgrading infrastructure to meet power services demand is a worldwide challenge. This project focuses on building new capabilities that expand upon internationally recognised expertise in power transformer research.

The Centre for Power Transformer Monitoring, Diagnostics and Life Management will enable the performance of insulation systems to be studied under different conditions, and allow examination of methods to manage and extend the life of transformers.

The new test facility will enable research into effective and attractive solutions for a number of identified technical areas including:

- Development of new cost-effective monitoring
- Diagnostic and life management technologies for industrial applications, such as algorithms, software, hardware and instrumentation
- Investigation of environmentally friendly, renewable, and less flammable alternative to current petroleum oils
- Improved reliability of power supply by minimising transformer related power disruptions

The project brings together representatives of the entire power transformer supply chain and an internationally recognised research team to deliver the project outcomes.

Funding

\$1.59 million over three years towards establishing a world class centre that will facilitate laboratory, factory and field research and development activities for oil-filled power transformers. Total project value is estimated at \$3.61 million.

Founding Members Consortium

Monash University

Wilson Transformer Company (Vic)

Dynamic Ratings (Vic)

TJ/H2b Analytical Services (Vic & USA)

Affiliates

Ergon Energy

Weidman Company (Switzerland)

SPI PowerNet (Vic)

TXU (Vic)

Powercor/CitiPower (Vic)

Country Energy (NSW)

Energy Australia (NSW)

Powerlink (Qld)

Transpower (New Zealand)

Contact

Dr Valery Davydov, Monash University



Australian Tissue Engineering Centre Ltd

Tissue engineering is an exciting new research field aimed at regenerating new body parts from manufactured matrices and cultured cells. This will be the key focus of the new Australian Tissue Engineering Centre (ATEC).

The new Good Laboratory Practice (GLP) facility will provide preclinical testing of tissue engineering products. This will enable the foundation for product development that will comply with Food and Drug Administration and Therapeutic Goods Administration regulations.

ATEC will provide contract services to other biotechnology research institutes and companies, and also provide a platform for further research work in tissue engineering by Melbourne's renowned Bernard O'Brien Institute of Microsurgery.

The tissue engineering research program will build on the existing tissue engineering capabilities of its founding consortium partners.

Funding

\$5.20 million towards establishment of the drug testing and tissue engineering facility that is operated under GLP protocols. Total project value is estimated at \$11.60 million.

Founding Consortium Members

Bernard O'Brien Institute of Microsurgery

Australian Stem Cell Centre

Peter MacCallum Cancer Centre

The University of Melbourne

Contact

Mr Geoff Renton, Bernard O'Brien Institute of Microsurgery

Advanced Processing and Innovative Foods Program

The Innovative Foods Centre was awarded \$2.81 million under the STI Initiative Round One to develop advanced food processing technologies (improved storage life, sensory characteristics and food safety).

The new program further develops the existing platforms with the acquisition of new skills and equipment. The Centre will build world-class capabilities in food biochemistry, enzymology and in the new area of food polymer and structural science. The new skills attained will include chemical and food process engineering, separation science, and food and ingredients functionality.

Scientists and engineers will work with the food processing industry to co-develop and demonstrate technologies for commercial application. This will facilitate the development of new and improved foods and food processes that will be enhanced with access to ongoing technical support to end-users and technology suppliers.

Funding

\$3.50 million over three years towards the further development of new advanced food technologies, building on the foundation of capabilities and successes achieved through the program supported under STI Initiative Round One. Total project value is estimated at \$8.25 million.

Founding Consortium Members

Food Science Australia

The University of Melbourne

Swinburne University of Technology

Contact

Dr Kees Versteeg, Food Sciences Australia



Australasian Facility for Stormwater Biofilter Technologies

The Australasian Facility for Stormwater Biofilter Technologies (AFSBT) will provide new technologies for better and safer solutions for the on-site treatment and management of stormwater.

The project brings together partners and investors from the public and private sectors to research, develop, and demonstrate innovative water filtration technologies. These technologies will enable integrated stormwater harvesting and treatment to become a practical, safe and cost-effective proposition.

AFSBT's objectives include:

- Determining how biofilters can be more effective for specific applications including road sides and new housing developments
- Providing viable alternative water sources where potable-water quality is not needed such as urban irrigation
- Promoting increased adoption of biofilter technologies in environmentally sensitive areas.

The project will provide various regulatory bodies, industry, and community stakeholders with the knowledge, tools and skills to make informed decisions about the efficient and effective management of stormwater resources.

Funding

\$1.46 million over three years towards the design and demonstration of second generation biofilters for the treatment of stormwater in different environments, such as residential estates, road sides and water supply catchments. Total project value is estimated at \$4.265 million.

Founding Consortium Members

Monash University

Ecological Engineering Pty Ltd

Affiliates

Melbourne Water

Vic Roads

Landcom

Brisbane City Council

The Torrens Catchment and Patawalonga Catchment Water Management Boards

Auckland Regional Council (New Zealand)

Manningham City Council

Contact

Dr Ana Deletic, Monash University

Rapid Wood Forming for the Furniture Industry

The Co-operative Research Centre for Wood Innovations and Blackforest Timbers Pty Ltd will establish a pilot production facility in Woodend to demonstrate the commercial viability of rapid wood forming technology. The ability to support cutting edge furniture design and fashion development through enhanced manufacturing flexibility is a key focus for this project.

The demonstration project aims to improve the:

- Competitiveness of Australian furniture manufacture
- Design flexibility of locally produced furniture
- Production of formed premium quality hardwood timber components at a lower price for use by furniture makers.

The project will deliver a strategic advantage to Victoria by:

- Providing access to lower-cost, premium-quality and more versatile formed components
- Improving the sustainability of hardwood timber resources through more efficient usage and reducing waste going to landfill
- Opening the possibility of using blue gum as a new, premium-quality hardwood timber resource.

Funding

\$1.10 million towards the demonstration of the commercial viability of rapid wood forming technology and its ability to support cutting edge furniture design through enhanced manufacturing flexibility. Total project value is estimated at \$2.20 million.

Founding Consortium Members

Co-operative Research Centre for Wood Innovations (partners include The University of Melbourne, Swinburne University of Technology, Queensland Forest Research Institute, WA Forest Products Commission, CSIRO Building, Construction and Engineering, and Furntech Tasmania)

Black Forest Timbers Pty Ltd

Contact

Professor Peter Vinden, CRC Wood Innovations



Biopharmaceutical Formulation and Finishing Sciences Centre

The production of pharmaceutical and other medical products in compliance with regulatory standards is a key element enabling a biopharmaceutical company to progress along the value chain. One such standard is the 'code of Good Manufacturing Practice' (cGMP) – a system to ensure that products are consistently produced and controlled to specified quality standards. Lack of access to GMP formulation and finishing facilities and capabilities has been identified as a market gap in the Australian biotechnology industry. Australia is also faced with a shortage of skilled people with GMP process knowledge – another key barrier to development in this area.

CSL and Swinburne University of Technology will establish a Biopharmaceutical Formulation and Finishing Sciences Centre to provide a contract formulation and finishing service for liquid pharmaceutical products for use in international standard clinical trials. The Centre will also provide an industry training site for the world's first, fully university accredited GMP training course administered by Swinburne.

Funding

\$2.70 million over three years towards the establishment of a Biopharmaceutical Formulation and Finishing Sciences service for liquid pharmaceutical products to enter into international standard clinical trials. Total project value is estimated at \$6.60 million.

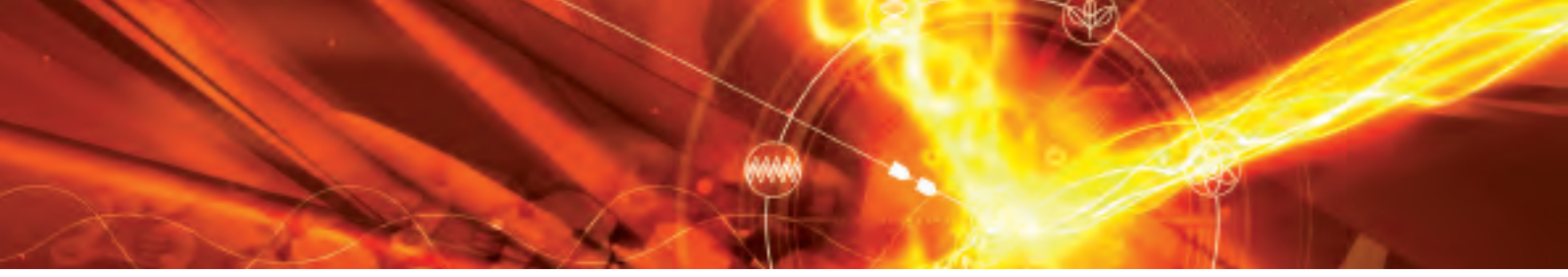
Founding Consortium Members

CSL Ltd

Swinburne University of Technology

Contact

Dr Jayne Crowley, CSL Ltd



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