

Industrial Transformation Research Programme

The Industrial Transformation Research Programme (ITRP) encourages and supports university-based researchers and industry to work together to find solutions to a range of issues facing Australian industries.

The Programme is awarded through two schemes:

- *Industrial Transformation Research Hubs*
- *Industrial Transformation Training Centres*

These research hubs and training centres foster collaborative research, bringing researchers and industry together to share their skills and expertise to solve problems and develop new products, processes and services that will transform Australian industries.

The *Industrial Transformation Research Hubs* scheme provides funding to eligible organisations to engage in cutting-edge research on new technologies and economic, commercial and social transformation, and supports the development of research in the Industrial Transformation Priorities.

The *Industrial Transformation Training Centres* scheme fosters close partnerships between university-based researchers and other research end-users to provide innovative Higher Degree by Research (HDR) and postdoctoral training for the end-user focused research industries vital to Australia's future.

Priority areas

Research proposals submitted under this programme must address one or more of the Industrial Transformation Priorities.

The current priorities for the Industrial Transformation Research Programme align with the Australian Government's Industry Growth Centres.

- Advanced Manufacturing
- Food and Agribusiness
- Oil, Gas and Energy Resources
- Mining Equipment, Technology and Services
- Medical Technologies and Pharmaceuticals

Applications

Proposals for the current round of funding under these schemes opened on 10 September 2015 and will close on 10 December 2015.

Applications for project funding for researchers and their industry partners under the Programme must be received from an Australian university or other eligible organisation.

For more information

- www.arc.gov.au
- Potential applicants should contact the Research Office at their intended Administering Organisation
- itrh@arc.gov.au, ittc@arc.gov.au

From the grape to the glass—ARC Training Centre to bolster nation's wine industry

The ARC Training Centre for Innovative Wine Production, based at The University of Adelaide is looking to further boost Australia's booming wine industry. The university was awarded \$2.4 million over three years from the ARC in 2013 to research the entire wine production chain—from grape to glass.

Researchers are providing new knowledge, methods and technologies to tackle challenges currently faced by the wine industry, including water restrictions and environmental change, along with changing consumer preferences and rising alcohol content in wine.

They are working closely with partners in other leading research centres, along with food and wine companies worldwide.

The industry partners are providing expert advice, access to vineyards and wineries, as well as grapes and wines. They are also providing feedback on projects and are involved post-vintage in the evaluation of wine produced.

Training Centre Director, Professor Vladimir Jiranek, said this industry involvement and advice was the key to the future success of the training centre in reaching its end goal—that is, happier consumers, a better balance of flavour and alcohol, and more profitable wine.

Participating organisations on this research programme include: Charles Sturt University; Treasury Wine Estates Vintners; NSW Department of Primary Industries; Memstar; Tarac Technologies; Laffort Oenologie Australia; Lowe Wines; CSIRO; Sainsbury's Supermarkets; Australian Wine Research Institute; South Australian Research and Development Institute (SARDI); and Bio Innovation SA.



Image: Professor Vladimir Jiranek and PhD candidate Lieke van der Hulst at the launch of the ARC Training Centre for Innovative Wine Production.
Image courtesy: The University of Adelaide.

ARC Research Hub on 3D printing to take aircraft to new heights

The ARC Research Hub for Transforming Australia's Manufacturing Industry through High Value Additive Manufacturing, based at Monash University, is taking the development of aircraft to new heights with a dedicated research programme in high value additive manufacturing.

This Research Hub will increase the awareness and uptake of metal-based additive manufacturing (including 3D printing) in Australia.

Monash University was awarded \$4 million over five years from the ARC in 2013 for the Research Hub through the ARC's ITRP.

In February 2015 the intensive research programme—and the heights it will reach—were on display at the Avalon International Airshow in Victoria, that is, with a 3D printed jet engine.

Researchers at this ARC hub aim to establish Australia as a global leader in knowledge of additive manufacturing for metal components, with application in industries such as aerospace, automotive, biomedical, space and defence.

Participating organisations on this research programme include: Deakin University; The University of Queensland; Australian Nuclear Science and Technology Organisation; Metallica Minerals Limited; Safran-Microturbo SAS; A.W. Bell; Amaero Engineering; Chassis Brakes International (Australia); International Seal Company Australia; Kinetic Engineering Services.

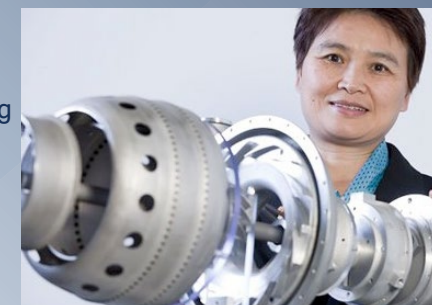


Image: Hub Director Professor Xinhua Wu with the 3D printed engine.
Image credit: Science in Public



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