

## Media Release

### Chiefs of Staff, News Directors

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## University launches new \$5.2 million research centre

University of Tasmania researchers are driving at revolutionary new technologies which could see complex medical and industrial testing brought out of the lab and onto a smart phone.

According to those behind the work, the prospect of ‘miniaturising’ analytical separation technologies – now conducted in large, specialised laboratories – could produce huge efficiencies in time and logistics.

The work will be a focus of a new collaboration between the University, industry partner Trajan Scientific and Medical, and the Federal Government.

This has created the \$5.2 million Australian Research Council (ARC) Training Centre for Portable Analytical Separation Technologies (ASTech) at the University, which was officially opened today.

Analytical separation science is a fundamental technology that allows samples to be broken down into their component parts and measured. It has a range of applications in areas including forensics, medical and clinical analysis, environmental testing, and food safety.

University Vice-Chancellor Professor Peter Rathjen said the Centre would be at the cutting edge of research, pushing technology towards ever greater portability and training the next generation of scientists in the field.

“We are offering three postdoctoral research fellowship and scholarships for 10 PhD students through this Centre,” Professor Rathjen said. “Part of their training will take place embedded within industry through Trajan.

“This Centre will have a significant impact on the development of high-end manufacturing in Australia, both through its research and by creating a new cohort of industry-ready researchers in a field poised for rapid advancement.”

University Deputy Vice-chancellor (Research) Professor Paddy Nixon added: “The University has an outstanding record working with industry and Government, with the

highest success rate in the country for the ARC's Industrial Transformation Training Centre and Industrial Transformation Research Hub schemes.

"Through these sorts of collaborations, we deliver real benefits to our students, the broader community and the economy."

Professor Emily Hilder is Head of the Discipline of Chemistry at the University and Director of the new Centre.

"Right now, analytical separations are typically done in large labs due to the size and complexity of the technology," Professor Hilder said.

"The exciting work in this field is in miniaturisation. How can we shrink things so we can use smaller technology and smaller samples?"

"What if you could carry out a full suite of tests on a pin-prick droplet of blood rather than a full vial and what if those tests could be done on equipment at the GP's office rather than sent off to a central lab? What if you could carry out tests on your smart phone?"

Professor Hilder said the Centre would build on the University's national standing in the field, underpinned by the work of the Australian Centre for Research on Separation Science (ACROSS), which was established in 2001.

Trajan's Chief Executive Officer, Stephen Tomisich, said that by establishing ASTech with the University, it demonstrates a collaborative framework for industry and academia in Australia to deliver tangible economic and social benefits.

"In the lead up to today's launch, Trajan and the University have set clear approaches to achieve mutual goals, from target technology development to commercialization, IP protection and providing student training in an innovative commercial environment," Mr Tomisich said.

"Trajan is committed to making an impact on transforming Australian-based research into commercial outcomes for the global market."

## **Notes for editors**

### **University of Tasmania**

The University of Tasmania is ranked in the top ten research universities in Australia and in the top two per cent of universities in the world. For 125 years, the University has provided a creative and stimulating environment, providing opportunities for our students to engage in an international learning experience. In addition to the more than 30,000 students, the University's community is strengthened by a network of more than 90,000 alumni spanning more than 120 countries, and is underpinned by collaborative partnerships with organisations that share its strategic outlook. While maintaining a distinctive Tasmanian identity, University programs and research are international in scope, vision and standards.

## **Trajan Scientific and Medical**

Trajan aspires to bring together a range of global businesses in the fields of scientific and medical analysis that have a common bond; to focus on developing and commercialising technologies that enable analytical systems to be more selective, sensitive and specific for biological, environmental or food related measurements, especially those that can lead to portability, miniaturisation and affordability. Trajan, formed in 2011, has a global presence with around 300 staff worldwide, with headquarters in Melbourne, Australia and significant operations in the USA, Europe and Japan. In October 2011, Trajan acquired the pathology consumables business of Grate Scientific (Victoria, Australia). In June 2013, Grate Scientific acquired the consumables business of HD Scientific (New South Wales, Australia) to become a new entity, Grate HDS. In May 2013, Trajan acquired the Chromatography and Liquid Handling businesses of SGE Analytical Science, since its foundation in 1960 has become a leader in creating components and consumables used in scientific analysis. [www.trajanscimed.com](http://www.trajanscimed.com)

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