

We'll stop at nothing to transform your medical possibilities into clinical realities.

UniSA is leading the way for Pharmaceutical development in South Australia, partnering with organisations across the health, medical and care sectors.

Our researchers have world-leading expertise in:




- **pharmaceutical innovation and development** – we cover all aspects of pharmaceutical research, from initial drug design studies to preclinical and clinical development across human and veterinary medicine
- **therapeutics** – we develop pre-clinical CAR-T, antibody and small molecule therapies in state-of-the-art facilities to find causes and cures for cancer
- **medicines safety** – we work on consumer-driven, data informed research, effective in improving the use of medicines while improving patient lives
- **biomaterials engineering and nanomedicine** – we reimagine therapy with the latest technologies
- **clinical trials** – we support with engagement along the full continuum of clinical trials, ranging from early-stage trial design through to partnerships proving new therapies in clinical trials and post-approval medications surveillance.
- **personalised medicine** – we use genomics, pharmacogenetics, proteomics, and bioinformatics to inform the next generation of treatments that are tailored to a patient's needs.

When you connect through the Enterprise Hub, you'll have access to:

- **Centre for Pharmaceutical Innovation (CPI)** – CPI is revolutionising the healthcare industry by delivering pharmaceutical solutions to address unmet medical needs. CPI researchers are focused on drug discovery, human and veterinary pharmaceuticals, biotechnology and nutraceuticals.
- **Future Industries Institute (FII)** – FII houses more than \$80 million of specialised infrastructure and brings together world class science, medicine and engineering researchers. They are delivering the next generation of innovation and technological advances in medical technology.
- **Mass Spectrometry and Proteomics facility (MSP)** – MSP houses state-of-the-art infrastructure and associated expertise in tissue mass spectrometry imaging and proteomic analyses. MSP is a NCRIS proteomics node for Bioplatforms Australia and offers a wide range of analytical services for industry and academia.

UniSA in action – better cancer detection for more precise treatment

Ferronova and UniSA's partnership:

-  enabled more accurate cancer detection, helping save lives
-  reduced side-effects for patients by targeting drug delivery, improving outcomes for cancer patients
-  eliminated hazardous radioactive materials.

Medical device company, Ferronova, partnered with UniSA's Future Industries Institute to develop a biodiagnostic system designed to refine cancer detection. The system consists of a magnetic probe and injectable magnetic nanoscale tracers to map the potential spread of cancer less invasively, more accurately, and faster than existing methods.

The system has been used in a successful first-in-human trial at the Royal Adelaide Hospital, and is currently undergoing or about to undergo trials in colorectal and gastric-oesophageal cancers.

"Translating university IP into human trials is a significant undertaking, and the Ferronova nanoparticle technology is one of the first new magnetic nanoparticle technologies to be translated to the clinic in over 20 years," says Ferronova CEO Stewart Bartlett.

The technology relies on magnetic rather than radioactive tracers so there is no need for the specialised rooms, equipment and training that is currently required for radioactive agents.

"Ferronova has benefited by being co-located in world-class facilities at the UniSA Mawson Lakes campus, leasing a world-class clean room for GMP manufacturing, accessing infrastructure and facilities required for testing and analysing nanoparticles, and collaborating with world-class researchers on a daily basis."



Stewart Bartlett, Ferronova CEO



Some of our partners



UniSA's Enterprise Hub

World-leading technology and research expertise at your side

We are committed to helping organisations deliver better medicines.

The Enterprise Hub can connect you to experts in drug discovery and formulation, human and veterinary pharmacology, biotechnology, immunology and nutraceuticals. 3,000 expert academics, 30+ world class research institutes, 37,000+ students and 2,500+ industry partners are within your reach.

We're here to help you solve problems, whether it's a knowledge gap that's holding you back, access to experts and the latest facilities, or discovering the right talent and support you need to grow.



Partner with us to uncover the ideas, solutions and connections that will make your business unstoppable.

To learn more, scan the QR code or visit unisa.edu.au/enterprisehub

Through the Enterprise Hub you can:



Put unstoppable research teams to work

100% of our research is world-class or above. Imagine what could be possible if our team partnered with yours.



Build your best team

Bespoke training (from a three-hour webinar to a three-year degree), internships, co-located researchers, and access to talent for workforce planning. Our people are our strength, they can be yours too.



Push boundaries with access to state-of-the art equipment, systems, and places

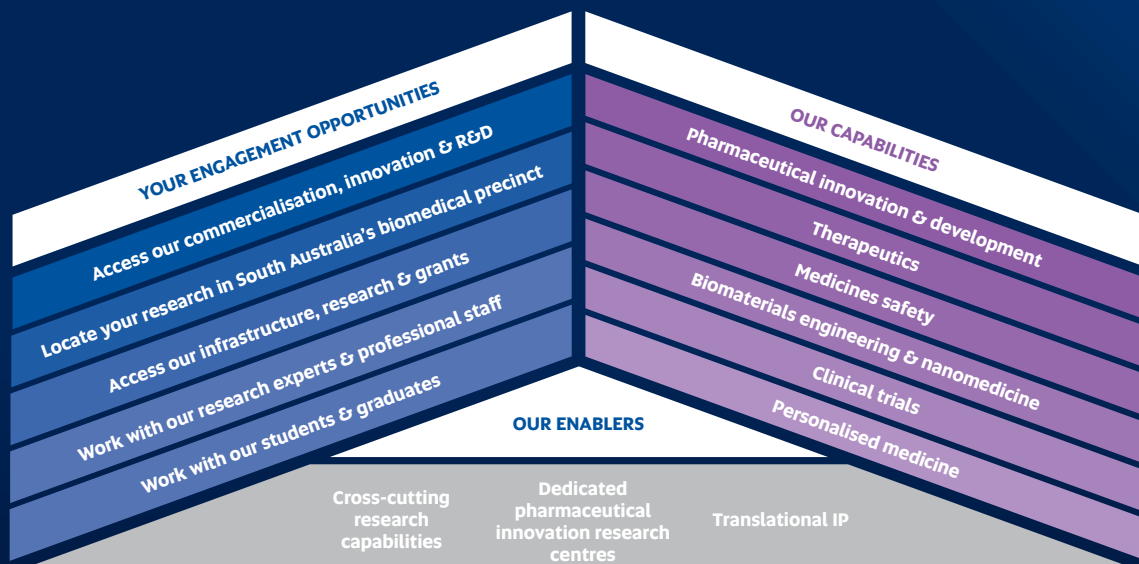
Our doors are open. Access technology and resources out of commercial reach and unlock your organisational potential.



Explore unexpected connections

We're nurturing more than 6,500 relationships and 2,500 partnerships in a creative and collaborative space. Be part of our global ideas network that's breaking with tradition.

Transform your medical possibilities with UniSA



"Through South Australia's only pharmacy program, our pharmaceutical and pharmacology research is leading the way for the sector. When you connect with us, you'll have access to this research, plus our industry sector experts, our specialist infrastructure and much more. Get in touch today." - Kate Illingworth



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