



THE UNIVERSITY  
of ADELAIDE



Waite campus  
Join our research precinct

[adelaide.edu.au](http://adelaide.edu.au)

*seek* LIGHT

# Invitation to Partner

The University is seeking new partners that are strategically aligned to its research and teaching capabilities and facilities at the Waite.

Opportunities include:

- > Facility rental, including office space and labs
- > Development of new or current facilities on campus
- > Funding an industry scholar
- > Industry placements

By co-locating at Waite, your organisation can become a leader in emerging fields of food, agriculture and wine-related research which results in the development of breakthrough technologies.

Benefits include:

- > Shared knowledge, infrastructure and technologies
- > The opportunity to collaborate and undertake joint research opportunities with like-minded academic experts
- > Excellent facilities which can be tailored to your needs
- > An idyllic setting only 7km from the CBD
- > Access to a pool of talented students with a passion for your industry
- > Access to teaching and meeting facilities
- > Access to the Entrepreneurship Commercialisation and Innovation Centre, where your staff can learn the skills needed to incubate, grow and execute ideas, becoming proactive and innovative leaders
- > Global connector programs, including a business incubator in Chalons, France

“ Whether you want to collaborate, invest, learn, research or access campus services, now is the ideal time to find out more about partnering with us. ”



**15**  
world-class research  
organisations and centres



**10**  
associated industry  
partnerships and  
sponsored programs



**1100**  
research and  
technical staff



**550**  
*undergraduate*  
students



**295**  
*postgraduate*  
students



**\$120+**  
million research  
turnover per year



**\$270**  
million research and  
teaching infrastructure  
including unique and publically  
available facilities such as the  
Plant Accelerator®



Australia's most  
*recognised and*  
*respected*  
agricultural research and  
teaching brand



**Internationally  
recognised**  
for delivering transformational  
agricultural technologies  
and systems

# About the University

Established in 1874, the University of Adelaide is Australia's third-oldest university with an annual turnover exceeding \$800 million.

With an international reputation for conducting world-leading research across a wide spectrum of areas, we are consistently ranked in the top 1% of universities worldwide and are a member of the Group of Eight, a coalition of Australia's foremost research intensive universities.

The University constitutes a vibrant and diverse community with over 25,000 students and over 3,500 members of staff across our three main campuses.

The University has four campuses in South Australia at North Terrace, Thebarton, Waite and Roseworthy.

The halls have been graced by Nobel Prize winners, hundreds of Rhodes and Fulbright Scholars, and many thousands of students who, supported by the University of Adelaide's distinct academic environment, have realised their individual potential.

Our researchers have made vital contributions to pioneering inventions throughout history including x-ray crystallography, insulin, penicillin and the Olympic torch and cauldron.

In business 143 years, the University of Adelaide remains committed to the discovery of new knowledge, excellence in education and engagement with the community.

The University of Adelaide's Waite campus is the largest agricultural research, education and commercialisation precinct in the Southern Hemisphere.

Nestled in the Adelaide foothills, the Waite is located 7km south east of Adelaide's CBD, South Australia, and less than an hour from some of South Australia's most productive primary production regions.

The Waite hosts a rich network of collaborators including several of Australia's premier research and development organisations, enabling greater synergies and the sharing of infrastructure and expertise, with capability in whole of value chain approaches from gene discovery to consumer needs.

Since the establishment of the Waite Agricultural Research Institute in 1924, the Waite has developed through the pursuit of excellence in research and by collaboration between several co-located partners to become a global leader in agriculture, food, wine and natural resources science.

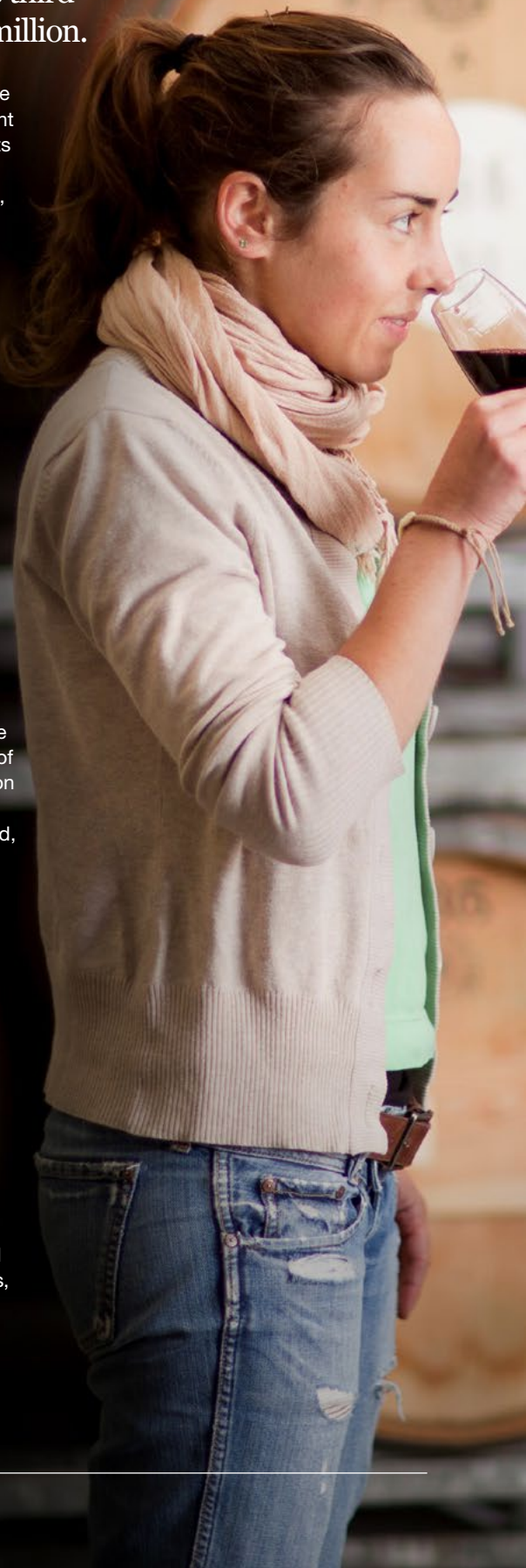
The Waite's work underpins the diverse and economically significant agriculture, food and wine sectors in Australia, exploring and informing critical national and global issues.

The University of Adelaide Masterplan 2016-2035 provides an aspirational, integrated strategy for the University's built environment in support of its strategic objectives.

The first stage of the proposed development at Waite is to create a Hub for networking and collaboration near the centre of the campus, on the intersection of the two primary roads.

It will provide a convenient, accessible and highly visible meeting place for researchers, staff, students and collaborators.

**More info:** [adelaide.edu.au/masterplan](http://adelaide.edu.au/masterplan)





# Research Themes

The Waite is a leading centre of research capability for grains, plant breeding, soil science, wine and viticulture and natural resource management within Australia. Research in these areas and related disciplines is geared towards the overarching goals of:

- > Sustainable agricultural production for healthier and environmentally resilient outcomes
- > Optimising the economic and nutritional value of South Australia's clean, green food and wine products
- > Assessing and overcoming current and potential environmental threats to a wide range of crops
- > Food security, safety and innovation



# Campus Partners

## Primary Research Partners

- 1 Australian Wine Research Institute (AWRI)** - The Australian grape and wine industry's own research organisation delivering world class research, practical solutions and knowledge transfer.
- 2 Commonwealth Scientific and Industrial Research Organisation (CSIRO, Agriculture & Food and Land & Water business units)** – CSIRO drives innovation for Australia's agricultural, land, water and minerals sectors.
- 3 South Australian Research and Development Institute (SARDI)** - SARDI's goal is to help make South Australia's primary industries and regions internationally competitive and ecologically sustainable.

## Industry Partners

- 4 Arris** - An Australian-owned consulting company, providing agricultural and environmental services and marketing communications expertise.
- 5 Australian Genome Research Facility (AGRF)** - AGRF is Australia's oldest and largest provider of genomic services and industry solutions.
- 6 Australian Grain Technologies (AGT)** - Australia's largest grain breeding company managing four significant regional crop breeding operations: Northam (WA), Narrabri (NSW), Wagga Wagga (NSW), and Roseworthy (SA).
- 7 Food South Australia** - Food South Australia is the State's peak industry body, feeding connections to help industry grow, unite, lead and sustain South Australia's food industry and companies into the future.

## Specialist research centres

- 8 ARC Centre of Excellence in Plant Cell Walls** – The Plant Cell Walls centre is a collaboration that seeks to advance fundamental scientific understanding of plant cell wall biology to enable sustainable biomass production for food security, human health and energy biomass conversion.
- 9 ARC Centre of Excellence in Plant Energy Biology (Adelaide node)** – The Plant Energy Biology centre is a multi-node centre, with an overall research focus on the metabolic reactions that allow plants to use energy from the sun to produce the oxygen we breathe, the food we eat and remove waste carbon dioxide from the atmosphere.
- 10 ARC Industrial Transformation Research Hub for Wheat in a Hot and Dry Climate** – This Hub brings together wheat researchers and Australia's major wheat breeding companies for faster development of heat and drought-tolerant varieties which make better use of nitrogen fertiliser.
- 11 ARC Industrial Transformation Research Hub - Legumes for Sustainable Agriculture (Adelaide node)** – A national program addressing common environmental stresses, including drought, heat, salinity and flooding, that constrain Australian grain legume producers.
- 12 ARC Training Centre for Innovative Wine Production** – Highly skilled researchers tackling the main challenges for the Australian wine industry, including climate warming, water restrictions, changing consumer preferences and rising wine alcohol content.
- 13 Australian Centre for Plant Functional Genomics (ACPFG)** - The ACPFG combines genetic, physiological and developmental information with functional genomics to identify and characterise genes controlling adaptation to abiotic stresses in wheat, barley and model species.
- 14 FOODplus** – the FOODplus Research Centre is a joint venture with the Child Nutrition Research Centre at SAHMRI and is focussed on translating functional food and nutrition research into healthy, economic food products, and building connections between food, health and agriculture.

## Partnerships, Collaborations and Major Facilities

- 15 **Adelaide Glycomics** – The highly qualified analysts and suite of high-end instruments at Adelaide Glycomics explore the structural and functional properties of complex carbohydrates
- 16 **Adelaide Microscopy's Waite Facility** supports researchers on the Waite Campus, providing microscopy instrumentation, expertise, technical advice and training in advanced microscopy. The facility provides a conduit to the North Terrace-based Adelaide Microscopy facility, and nationally to NCRIS-funded Australian Microscopy and Microanalysis Research Facilities.
- 17 **Australian Plant Phenomics Facility** – The Plant Accelerator is a national public research facility that allows automated, high throughput, non-destructive measurements of plant growth and function.
- 18 **Fertiliser Technology Research Centre** – a partnership between Mosaic and the Australian Grains Research and Development Corporation (GRDC) developing novel fertiliser formulations, advanced isotopic and spectroscopic investigations of fertiliser efficiency, and field scale agronomy trials.
- 19 **South Australian Food Innovation Centre (SAFIC)** – A partnership of six leading agencies assisting food and beverage businesses find innovative solutions to grow, develop and deliver high value products for local, national and international markets.
- 20 **The University of Adelaide-Shanghai Jiao Tong University Joint Lab for Plant Science and Breeding** – focused on reproductive development and breeding innovations for rice and barley.
- 21 **Waite Research Institute (WRI)** – The WRI brings together University of Adelaide researchers from a range of disciplines including crop biology, agricultural production, wine, food and nutrition sciences to find solutions to grand challenges such as global food security and providing Australia's agricultural, wine and food industries with innovative research-led developments

- 22 **Wine Innovation Cluster (WIC)** – A partnership of four leading Australian grape and wine research agencies that strives to build collaboration and create synergies in research and development across the partner organisations for the benefit of Australia's multi-billion dollar wine industry.

## Plant and Crop Breeding Initiatives

- 23 **Durum Breeding Australia (Southern Node)** is a national initiative established between the University of Adelaide, NSW Department of Primary Industries (NSW DPI) and the Grains Research Development Corporation (GRDC) to ensure new durum varieties are developed for the high value, niche market.
- 24 **Faba Bean breeding program (Pulse Breeding Australia)** delivers highly adapted chickpea, field pea, lentil, faba bean and lupin varieties to growers across Australia.
- 25 **National Almond Breeding Program** - Along with classical breeding using Australian cultivars crossed with European and American cultivars, this program uses molecular techniques to aid the selection process. Hybridisations are conducted at multiple sites including the Waite Campus (Adelaide), Angle Vale, (Northern Adelaide Plains), and Lindsay Point (Riverland).





# Facilities and services

Much of the \$270m+ worth of research infrastructure at the Waite is shared by the co-location partners and came about through joint investment.

## Researchers can access the following facilities and resources:

- > A range of advanced microscopes (SEM, TEM, confocal, and others)
- > High through-put plant phenomics
- > A range of nucleic acid (DNA) sequencing platforms
- > Winemaking services
- > Soil pathogen testing for broad acre crops and potatoes
- > Computing facilities and high speed internet connection.
- > Laboratories equipped for chemical, genetic, biochemical, microbiological, physiological and ecological studies
- > Controlled environment containment and quarantine facilities for work with plants, invertebrates and organic material
- > Special purpose laboratories for cytogenetics, cereal breeding, cereal quality, anaerobic microbiology, insect pathology, and horticultural field studies
- > Insectary
- > Greenhouses and plant growth facilities
- > Advanced small plot machinery for field experiments with cereals and pastures
- > X-ray diffractometer, NMR facility, GC/mass spectrometer and infra-red and UV/visible spectrophotometers
- > Sensory facilities and “Chemical nose”
- > Australian Pastures Genebank
- > Seed testing and certification
- > Insect Diagnostic Service
- > Two lecture theatres seating 150 each
- > Conference facilities and video conference centre
- > Library
- > Children’s Day Care Centre
- > On-site cafeteria
- > Sports oval

# Teaching and Learning

The University of Adelaide’s Faculty of Sciences provides undergraduate, Graduate Diploma, Masters and PhD programs delivered by the Schools of Agriculture, Food and Wine in the areas of agricultural sciences, food and nutrition, plant and pest science, oenology and viticulture, natural resource management, and soil and land systems.

The Waite attracts the best and brightest undergraduate and postgraduate students who are looking for industry placements, work experience and postdoc opportunities. The Campus is vibrant and multicultural with 40-50% of students coming from other countries.

The Waite Historic Precinct incorporates the internationally renowned Waite Arboretum, Waite Conservation Reserve and the Urrbrae House Historic Precinct. All are open to the public with free guided tours conducted monthly. Some facilities are also available to hire for functions.

# About South Australia

South Australia is a one-stop destination for world-class wine, gourmet produce and unique native wildlife. Named in Lonely Planet's top five regions to visit in 2017, South Australia also boasts iconic destinations like the Flinders Ranges, Riverland and Kangaroo Island.

Adelaide is our capital city and a hub for vibrant art, music, cultural and world-class sporting events.

South Australia's central location makes it the ideal business gateway into Australia and to markets in the Asia Pacific and beyond.

Our international airport is only 6 km from the city centre. There are direct flights from Adelaide to most major Asian airports and all Australian capital cities.

South Australia offers a highly competitive environment and an ease of doing business which supports profitable investments.

- > Competitive business environment
- > An enviable lifestyle
- > Culture of innovation
- > Skilled and educated workforce
- > Advanced manufacturing capabilities
- > Stable government





# Government Support

Both State and Federal Governments offer a range of financial incentives to support enterprises which are likely to have a positive impact on our economy, particularly in the creation of new jobs and future industries.

The Research and Development Tax Incentive encourages companies to engage in R&D in Australia by providing a tax offset for eligible activities. It reimburses 43.5% costs in cash to eligible companies with an aggregated annual turnover of less than \$20 million (30.5% tax offset to all other eligible entities). Before commencing R&D activities, investors interested in benefitting from the financial incentives must set up an Australian company with a local director.

The Economic Investment Fund provides support for eligible projects that bring new jobs to South Australia.

A Jobs Accelerator Grant is available for any new employees hired before 30 June 2018 by eligible businesses. Organisations based in South Australia with taxable payrolls of up to \$5 million may receive a grant of up to \$10,000 over two years for every extra full time equivalent person employed.

For more information on state government support, contact Investment Attraction South Australia.

[invest.sa.gov.au](http://invest.sa.gov.au)





## For further enquiries

To find out more about making the Waite Campus home for your organisation contact:

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