



Urban Design – 3D Analysis

Three-Dimensional analysis to evaluate

Three-dimensional analysis to assess green space strategies...



University of
South Australia

ACADEMIC CAREER OPPORTUNITIES

School of Natural and Built Environments

UNIVERSITY OF SOUTH AUSTRALIA



73% OF ACADEMIC
STAFF NOW HOLD
A PHD, RANKED
NUMBER 7 IN
AUSTRALIA

(Department of Education, 2014)

ACKNOWLEDGED
AS AN EMPLOYER
OF CHOICE
FOR WOMEN FOR
THE 11TH YEAR
RUNNING

(Commonwealth Government's
Equal Opportunity for Women in the
Workplace Agency, 2013)

**YOUNGEST AUSTRALIAN
UNIVERSITY TO BE RANKED
IN TOP 50 UNDER 50 YEARS**

(Times Higher Education, 2014)

MORE THAN 86%
OF ASSESSED
RESEARCH
DEEMED TO BE
**WORLD-CLASS
OR ABOVE**

(Excellence in Research for Australia, 2012)

UNISA IS THE
ONLY SA
PARTNER OF THE
AUSTRALIAN
INDIGENOUS
MENTORING
EXPERIENCE

(Australian Indigenous
Mentoring Experience)

AMONG THE **TOP 3%** OF
MORE THAN 10,000
INSTITUTIONS WORLDWIDE

(QS World Rankings, 2013)

Artist's impression of the University of South Australia's new Health and Biomedical Research Building

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WELCOME

From the Vice Chancellor and President



The University of South Australia is an innovative, outward-looking institution known for its strong and engaged research and its experientially-based teaching and learning that is conducted in close collaboration with business, industry, government and the professions.

In recent years, the University has maintained a strong upward trajectory across a number of key indicators and is ranked among the world's top 50 young universities in a number of high-profile global indices. It also continues to play an increasingly important role in local, national and global communities.

Among our core principles is a commitment to both excellence and equity, founded on the belief that true equity can only be achieved by enabling greater access to high quality opportunities

Our approach to teaching and learning emphasises the achievement of graduate qualities, student-centred learning and flexible program delivery, and we focus on collaborative research in multidisciplinary teams.

We have redeveloped many of our teaching spaces to include high-tech facilities for active learning, simulation and student interaction. Our new student learning centre at

City West campus provides students with a range of state-of-the-art learning spaces designed to accommodate different learning styles.

At a global level, we are committed to international education activities and alumni, graduates who are equipped to meet the demands and expectations of the worldwide workforce, significant and developing international research relationships, a culturally diverse staff, and increasing student mobility.

Perhaps most importantly, at the heart of our performance and aspirations is a team of outstanding, dedicated, culturally diverse people who ensure that the University of South Australia remains a dynamic, engaging environment in which to work and study.

With best wishes

A handwritten signature in blue ink, reading "David Lloyd".

Professor David Lloyd
Vice Chancellor and President

WELCOME

From the Pro Vice Chancellor and Vice President



The University of South Australia's Division of Information Technology, Engineering and the Environment has a proud history of furthering education and research in the fields of science and technology to promote innovation in the local South Australian community, in Australia and internationally.

Our division's home at the University's Mawson Lakes campus is located in Technology Park Adelaide, sharing a precinct with leading technology organisations. Our programs and research are industry aligned and focused on real-world outcomes of great significance to our community, through strong collaboration with innovative industry.

Encompassing teaching, research and consultancy in the areas of science, information technology, engineering, mathematics and the natural and built environments, our three schools, three research institutes and seven research centres work closely, and often in cross-disciplinary teams, to produce outstanding learning outcomes and research results.

As a testament to the quality of our research, our division's disciplines were rated as world-class or above in the [2012 Excellence in Research](#) for Australia assessment. The researchers who produced these outstanding ratings are also engaged directly in the teaching and learning of undergraduate and postgraduate students. Our students have many opportunities to work directly with industry, and by learning from researchers who are engaged in the latest technological and developmental innovations, their education is holistically focused on their readiness to contribute to their future career, their profession, industry and the whole community.

A handwritten signature in dark ink, appearing to read 'Robert Short'.

Professor Robert Short

Pro Vice Chancellor and Vice President
Division of Information Technology, Engineering and the Environment



DIVISION OF INFORMATION TECHNOLOGY, ENGINEERING AND THE ENVIRONMENT



The Division of Information Technology, Engineering and the Environment is a World Top 100 for Engineering and Technology (Times Higher Education rankings for 2013-14). The Division is modern and vibrant, embracing both basic research and applied research. Our academic schools, flagship research institutes and related research concentrations are at the cutting edge of research-informed teaching and knowledge transfer in four areas that are amongst the most significant to modern society:

- ▶ Sustainable Natural and Built Environments
- ▶ Information and Communication Technologies
- ▶ Advanced Manufacturing and Materials
- ▶ Resources, Minerals and Energy

The Division has a diverse and multi-cultural workplace environment with over 500 academic and professional staff and a total of approximately 6,000 students enrolled both onshore and offshore. Students studying onshore are located on all five University campuses - Mawson Lakes, Magill, City East, City West and Whyalla. In addition, undergraduate and postgraduate programs are delivered offshore, principally in Singapore.



SCHOOL OF NATURAL AND BUILT ENVIRONMENTS

The School of Natural and Built Environments (NBE) is a multi-disciplinary School and the largest of three schools comprising the Division of Information Technology, Engineering and the Environment. The School focuses on the unique relationships and synergies between natural and built environments, with a particular interest in teaching and research to support improved environmental and socio-economic sustainability for the future.

The School undertakes teaching and research across four main areas: Civil Engineering; Construction and Project Management; Environmental and Geospatial Science; and Urban and Regional Planning. These four disciplines are evenly distributed across the School's two campus locations; Mawson Lakes and City East.

The School provides an excellent research environment and hosts the well-recognised [Centre for Water Management and Reuse](#). Researchers from the School also comprise a significant membership of the [Barbara Hardy Institute](#) where they are involved in research theme areas including Transport Systems, Sustainable Building and Urban Planning, Infrastructure, Urban and Environmental Ecology, Environmental Education and Mapping and Modelling Landscapes.



ABOUT UNISA

The University of South Australia is a young and agile institution solving today's challenges by educating tomorrow's professionals. As a university of enterprise, our efforts are focused on providing economic and social benefits to the nation and the world.

Formed in 1991 and built on more than 150 years of creating and applying knowledge, the University has quickly established a global reputation for the quality and creativity of its graduates and the innovative, outcomes-focused relevance of its research.

Our global reputation continues to grow.

In 2014 the Times Higher Education ranked the University in the world's top 100 institutions under the age of 50. QS World University Rankings placed UniSA in the world's top 350, one of only three Australian institutions under the age of 25 to feature in that world's best list.

As South Australia's largest university we have almost 35,000 students, of which approximately 9,000 are international students. Offering more than 400 degree programs in business, education, arts, social sciences, health sciences, information technology, engineering and the environment, our programs are designed with a strong professional emphasis and in partnership with industry. Our graduate employment rates are above the national average.

UniSA maintains a strong commitment to teaching and learning, and ranks in the top 10 nationally for the proportion of staff with a doctorate (73 per cent compared to a national average of 64 per cent). In addition, our MBA program is one of only three in Australia to have held a five-star rating for six consecutive years (as awarded by the Graduate Management Association of Australia) and in the 2013 International Student Barometer the University's overall average rating was in the top five of participating Australian institutions.

The University continues to develop a strong research environment, and has six research institutes, 16 research centres and is a key partner in 13 Cooperative Research Centres. We are ranked in the top one third of Australian universities for research income, and in the 2012 Excellence in Research for Australia evaluation more than 86 per cent of our assessed research was

deemed to be of world-class standard or above.

A hallmark of the University's research is the close, collaborative engagement with many industry, government, collegiate and community partners, which ensures that our research outcomes are relevant to end-users and that the questions asked reflect real-world issues.

With campuses in the heart of Adelaide and metropolitan areas of Mawson Lakes and Magill, as well as Whyalla and the Mount Gambier Regional Centre, the university provides opportunities to students from a wide range of geographic, socio-economic and cultural backgrounds. Additionally, a \$1 billion-plus building program is currently being implemented to further enhance our physical and virtual infrastructure.

University dimensions.

Annual Operating Budget

Approx \$A600 million

Total University Assets

Approx \$A1.5 billion

Research Income (DIISRTE Categories 1-4)

Approx \$A62 million

Students

Approx 35,000
(4,600 studying offshore)

Academic Staff

1477 fulltime equivalent*

Professional Staff

1587 fulltime equivalent*

*Includes casual staff



CROSSING THE HORIZON: OUR STRATEGIC ACTION PLAN 2013 - 2018

The University of South Australia's vision has been captured in the Crossing the Horizon Strategic Plan.

By 2018, we will be a university which engages fully with the professions and industry globally. Our research will continue to be informed, leading edge and relevant, and our graduates will be the new professionals driving the national and international economy through their skills, capabilities and innovation potential.

A key action of Crossing the Horizon is the appointment of 100 new professors to lead and make a distinguished contribution to the academic and research leadership of the university.

Our commitment to the future.

During the lifespan of this action plan, we commit to deliver:

1. Enhanced educational offerings and an outstanding student experience;
2. Industry and end-user informed research, supporting an industry-relevant curriculum;
3. Increased staffing in the classroom and increased efficiencies beyond;
4. Transformational infrastructure, enriching the fabric of our institution;
5. Engagement with society beyond the classroom and campus;
6. A globally visible and engaged university with international reach, collaborations, enduring relationships and leverage; and
7. A move towards a powerful internal and external service culture, supporting and enabling greater success.

For more information visit unisa.edu.au/crossingthehorizon

A large photograph of a graduation ceremony at the University of South Australia. In the foreground, graduates in black gowns and caps are seated, looking towards the stage. In the background, a stage is lit with blue and red lights, featuring the University of South Australia logo and two people standing. The text 'UNIVERSITY OF ENTERPRISE' is overlaid in white on the left side of the image.

UNIVERSITY OF ENTERPRISE

OUR VISION

UniSA will be a leading contributor to Australia having the best higher education system in the world, supporting the world's best educated and most innovative, cohesive and sustainable society.

OUR MISSION

UniSA educates professionals and citizens to the highest standards; creates and disseminates knowledge; and engages with our communities to address the major issues of our time.

OUR VALUES

Scholarship

UniSA promotes and sustains open intellectual enquiry characterised by high standards of ethics and integrity. Academic rigour, excellence and relevance underpin our actions in research and its application, in teaching and learning and in engagement with our communities.

Engagement

UniSA's teaching and research connects strongly with the issues of our local, national and international stakeholders - students, alumni, staff, partners, professions, government, industry, academic peers and community groups.

Social justice

UniSA gives effect to reconciliation with Indigenous Australians and builds social cohesion by achieving equitable educational access and outcomes across our diverse student community, through research that aims to improve the quality of life and by acting responsibly as a corporate citizen.

Sustainability

UniSA contributes to environmentally, economically, socially and culturally sustainable development, and we aim to reduce our own environmental impact.

Innovation

UniSA anticipates change and acts quickly to seize opportunities and solve problems.

Openness

UniSA is outward looking, welcoming diversity and the wide range of perspectives it brings, international in outlook, collaborative, creative, agile and enterprising.

LIVING IN ADELAIDE



Adelaide is one of Australia's best kept secrets and was voted Australia's most liveable city (2013 Property Council's national My city: The People's Verdict survey). It was also ranked the 5th most liveable city in the world for the 2nd year running according to the Economist Intelligence Unit.

A Mediterranean climate, accessible and convenient location, and world-class education are all enjoyed by Adelaide's residents. The city blends a sense of community usually reserved for small towns with the vibrant activity of a capital city. It is beautiful and well-ordered, surrounded by parklands and within easy reach of long, white, uncrowded beaches and the lush green hills and valleys of Australia's premier wine districts.

With its rich cultural background, Adelaide is home to a vast array of restaurants and the largest fresh produce market in the southern hemisphere - in fact, South Australia is often regarded as the food and wine centre of Australia.

Adelaide is known as Australia's festival capital, hosting the Adelaide Festival of Arts, Fringe Festival, WOMAdelaide, Cabaret Festival and OzAsia Festival in addition to an annual calendar full of music, comedy, food festivals and events. You will find plenty of opportunities to get involved in Adelaide's festival scene.

Australia is also a sports-loving nation and Adelaide is no exception. Each year, Adelaide hosts a variety of premier national and international sporting events including street circuit motor racing, tennis and golf championships, one-day and Test Series cricket at the iconic Adelaide Oval, and Australian Rules football, to name just a few. It is also the venue for the internationally acclaimed Tour Down Under cycling event, which features some of the world's top professional cycling teams, including a team supported by UniSA.





POSITIONS AVAILABLE

PROFESSOR/ASSOCIATE PROFESSOR SENIOR LECTURER/LECTURER

School of Natural and Built Environments

- ▶ *Division of Information Technology, Engineering and the Environment*
- ▶ *Mawson Lakes and City East campuses*
- ▶ *Five positions available at various academic levels*
- ▶ *Full-time, continuing appointments*
- ▶ *Relocation packages available*

The School of Natural and Built Environments at the University of South Australia is seeking to appoint a number of highly talented academics to a range of positions at Professor/Associate Professor/Senior Lecturer or Lecturer levels. This is an exciting and challenging opportunity to join a dynamic and thriving team within a highly successful multidisciplinary School.

PROFESSOR/ASSOCIATE PROFESSOR – TWO POSITIONS

The following leadership positions represent an exciting and challenging opportunity to lead a thriving discipline within a highly successful multidisciplinary School. The responsibilities of the appointee's role include teaching, research and academic leadership in each discipline group. The successful candidate(s) will also be key contributors to multidisciplinary teaching and research in conjunction with other disciplines and programs in the School.

Professor/Associate Professor and Discipline Leader of Urban and Regional Planning

The School seeks to appoint a person with suitable qualifications and experience to become the academic leader of the Urban and Regional Planning discipline.

Expertise in the following research and teaching areas would complement the existing academic staff profile:

- > Environmental Impact Assessment and Planning
- > Strategic Planning, Policy and Development Processes
- > Urban Regeneration, City Marketing and Place-making
- > Planning Law and Professional Planning Practice
- > Regional Development
- > Planning and Health

Professor/Associate Professor and Discipline Leader of Construction and Project Management

The School seeks to appoint a person with suitable qualifications and experience to become the academic leader of the Construction and Project Management discipline.

Expertise in the following research and teaching areas would complement the existing academic staff profile:

- > Construction and Project Management
- > Integrated Project Delivery
- > Sustainable Construction Science and Technology
- > Collaborative Building Information Technologies
- > Modern Construction Methods
- > Built Environment Research Methods
- > Construction Economics and Quantity Surveying
- > Building Surveying and Regulation

SENIOR LECTURER/LECTURER – THREE POSITIONS

The School seeks to appoint people with suitable qualifications and experience to become Senior Lecturers/Lecturers in a range of areas across the school.

Positions are available in the following broad areas of expertise – Civil Engineering, Construction Management, Environmental Science and Environmental Management. The opportunity for cross-disciplinary appointments is supported. In particular, expertise in one or more of the following specific research and teaching areas is sought to complement the existing academic staff profile:

- > Building Science
- > Building Surveying
- > Construction Engineering
- > Construction Management
- > Building Structures
- > Structural Engineering
- > Geotechnical Engineering
- > Engineering Geology
- > Geology
- > Environmental Science
- > Environmental Management
- > Human Dimensions of the Environment

It is expected that the successful candidate will enhance links and partnerships in research and other activities with government, industry and research institutions. A strong commitment will be expected for the development of excellence in teaching. The appointee will also be required to undertake administrative duties within undergraduate and postgraduate teaching programs, as well as supervision of research at both undergraduate and postgraduate levels.

HOW TO APPLY

To learn more about these vacancies, please visit:

unisa.edu.au/nbeacademicjobs

For a confidential discussion about these unique academic opportunities,
please contact:

Professor Simon Beecham

Head of School: Natural and Built Environments

Phone +61 8 8302 2357

Email simon.beecham@unisa.edu.au

Applications close:

9.00am Monday 11 August 2014



University of
South Australia