



USQ
AUSTRALIA

University of Southern Queensland

ABOUT QUEENSLAND, AUSTRALIA



SECOND-LARGEST

state in Australia, seven times the size of the United Kingdom

SUB-TROPICAL

temperature averages of 24°C in summer and 14°C in winter

300 DAYS

of sunshine per year

Unique flora and fauna, including over

20 MILLION

kangaroos

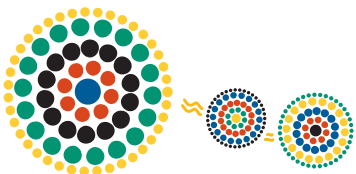
Beautiful landscapes, rainforests and

THE GREAT BARRIER REEF

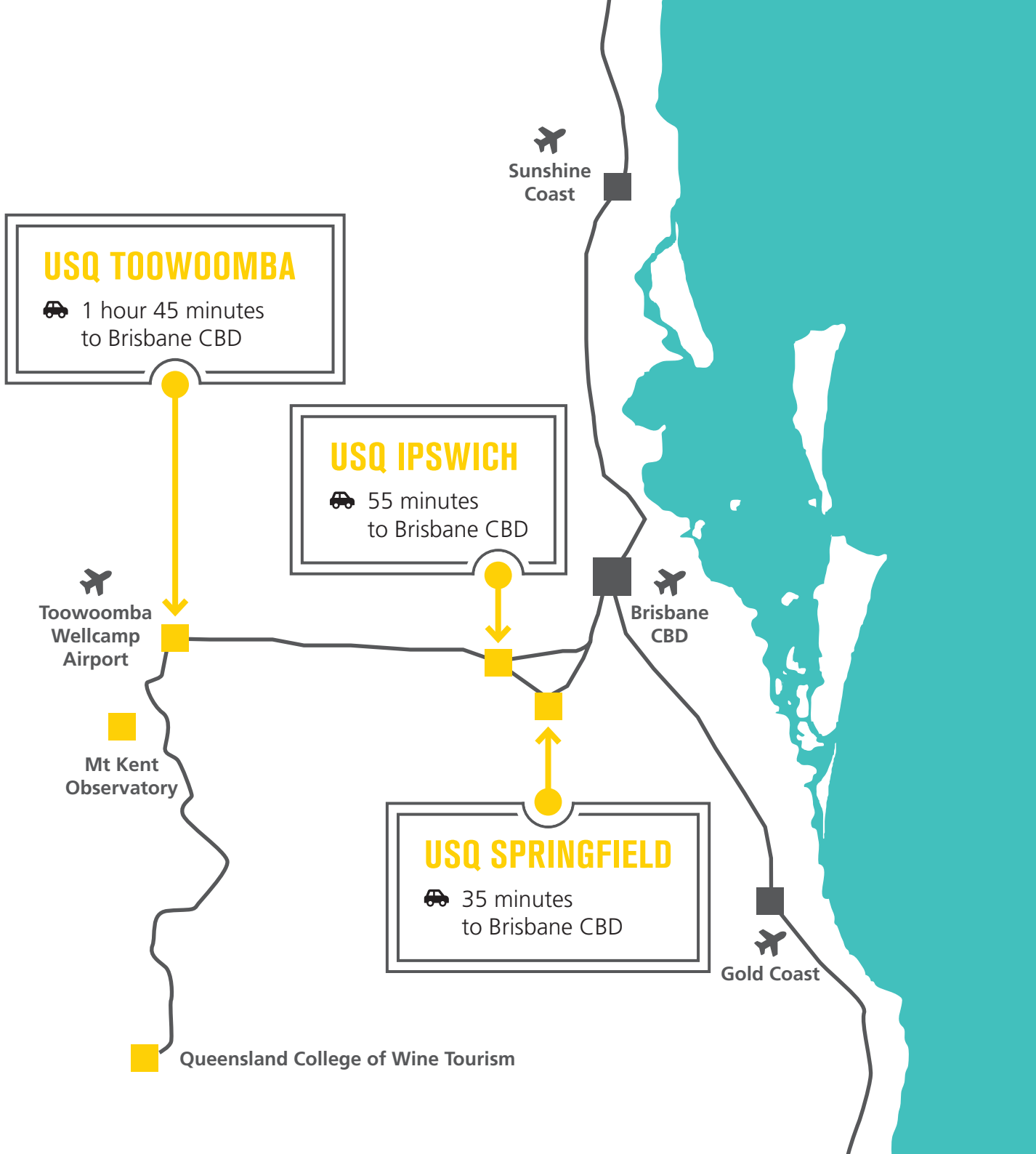
TWO MAJOR

international airports

There is high demand for **SKILLED GRADUATES** in specific industries. USQ addresses this demand with practical programs in fields such as Engineering.



USQ acknowledges the Giabal and Jarowair peoples of the Toowoomba area, the Jagera, Yuggera and Ugarapul peoples of Ipswich and Springfield, the Kambuwal peoples of Stanthorpe, and the Gadigal peoples of the Eora nation, Sydney, as the keepers of ancient knowledge where USQ campuses and hubs have been built, and whose cultures and customs continue to nurture this land. USQ also pays respect to Elders – past, present and future.



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WELCOME TO USQ

From the Vice-Chancellor

The University of Southern Queensland (USQ) has three beautiful, thriving campuses – one in Toowoomba, the second-largest inland city in Australia, and two in the city of Ipswich which is a rapidly growing community just outside the Queensland capital city of Brisbane. We also have a very significant ‘fourth’ campus, where our students can choose to study some, or all, of their subjects online from anywhere in the world, knowing that they will receive the same quality education, support and opportunities that our on-campus students do.

USQ degrees include traditional undergraduate and postgraduate programs, innovative education offerings, and structured pathways to USQ for domestic and international students at all levels. Our focus is on innovative learning and teaching policy and practice which is designed to maximise learning, emphasise employability outcomes, and to develop students to be global citizens in a challenging and rapidly changing world.

Underpinning our academic offerings is our internationally recognised, world-class research that delivers high impact solutions. Key to the USQ research culture is working with industry to understand problems they face, and collaboratively developing new ideas and technologies that have a real impact with tangible benefits. USQ collaborates with research, industry, and government partners from around the world to generate new, cutting-edge knowledge across all of our disciplines, and translate this into practice for the benefit of local, national and international communities.

The heart of USQ exists in our connections with students, partners, researchers and collaborators from all parts of the globe. We look forward to making new connections and strengthening existing ties, as USQ continues to grow from strength to strength.

PROFESSOR GERALDINE MACKENZIE

Vice-Chancellor
University of Southern Queensland



From the Pro Vice-Chancellor (International)

I take great pride in introducing the University of Southern Queensland. We are a university that has a proud history of providing higher education teaching programs and research outcomes to our communities through dynamic and engaging opportunities.

Our university is a Research Intensive Regional University providing cutting-edge international education programs in our key focus areas. Our teaching and research activities provide impact at local, national and global levels, and we are recognised throughout the world for our progressive strategic research partnerships.

USQ is located in Southeast Queensland across three vibrant campuses. Through our defined values we have built a university based around relationships and community, mutual respect, diversity and inclusion, and a strong commitment to ethics and integrity, collaboration, creativity and innovation.

USQ is committed to excellence in teaching international students in a research intensive and industry engaged academic environment. We maintain our relevance by linking with industry and business through local and international research networks. Collaborating with high quality institutions is recognised as being key to our success.

We welcome partners, students and researchers from around the world to our multicultural community to engage with our academic and research endeavours.

PROFESSOR REN YI

Pro Vice-Chancellor (International)
University of Southern Queensland



USQ'S DIRECTION

The University of Southern Queensland's mission is to lead in economic and social development through higher education and research excellence.

USQ IS DRIVEN TO

Lead in on-campus and online higher education

Lead in broadening higher education attainment

Be a partner of choice for like-minded organisations

Produce graduates regarded as practical, innovative and connected professionals

Achieve world-class results in focused areas of research to make global impacts

SHAPED BY ITS VALUES OF

RESPECT

INTEGRITY

EXCELLENCE



Commitment to sustainability

USQ takes measures to reduce its carbon footprint, promoting funding and implementing environmental initiatives for a lower carbon operation.

One action, on-campus solar generation, has reduced demand on the national electricity grid resulting in a 10 per cent decrease in USQ's carbon emissions. As USQ continues to expand its campuses, it is also successfully reducing its energy, waste and water consumption.

USQ also supports and inspires its broader communities to introduce strategies for a greener future.

ABOUT USQ

Over 50 years of education

USQ is dedicated to providing quality study programs across all study levels to students around the world.

Established as a university in 1992, it has delivered high quality education programs to the Darling Downs region since 1967. USQ is now ranked in the top three per cent of universities worldwide (QS Top Universities, World University Rankings 2020).

USQ is a comprehensive and research intensive regional university that operates from three campuses (Toowoomba, Springfield and Ipswich), the Queensland College of Wine Tourism, online and through trusted national and international education partners.

Academics are engaged with their fields as industry professionals, integrating real-world knowhow with teaching and learning expertise.

With strong connections to industries relevant to its study areas, USQ delivers programs that provide students with access to workplace integrated learning and internships.

USQ also maintains strong support from the communities where its campuses are located.



Please turn to pages **7-12** for information on USQ's research.



USQ ACHIEVEMENTS

Ranked in the
TOP 3%
of universities worldwide

30 AREAS
of research ranked at or
above world standard

*(Excellence for Research in
Australia, 2018–19)*

5 STARS
for internationalisation
and employability

(Quacquarelli Symonds, QS Stars 2019)

3 YEARS

Highest graduate career-entry
incomes in Australia

(Good Universities Guide, 2018–2020)

\$8.5 MILLION

education and training facility
for the wine tourism industry

OVER 106,000

graduates from 146 countries

1ST

Australian university
to deliver programs online

Current enrolments from
110 COUNTRIES

(2019)

\$6 MILLION

Mt Kent Observatory hosts the
MINERVA-Australis telescope for
exoplanet discoveries

166 TONNES

of carbon saved annually with
energy-efficient campus lighting

VALUED PARTNERSHIPS

Education

USQ values its teaching collaborations with industry and government partners to develop skilled workforces and well-informed leaders.

The University is one of the foundation members of the Regional Universities Network delivering policy advice to government on higher education and regional development.

Workplace integrated learning

USQ is committed to the development and advancement of knowledge and its application to commerce and the community.

As such, the University works closely with employers and industry groups to ensure its programs train innovative professionals that have high-level skills to build future industries.

Industry mentoring and internship programs are also designed to help students open doors to industry.

Research

USQ's research strengths address critical global challenges. With leading industry and government research partners, USQ is discovering solutions to build a strong and sustainable future.



RESEARCH INSTITUTES AND CENTRES

USQ leads multidisciplinary research across 12 world-class institutes and centres.

Institute for Advanced Engineering and Space Sciences

Centre for Agricultural Engineering

Centre for Astrophysics

Centre for Future Materials

Institute for Life Sciences and the Environment

Centre for Sustainable Agricultural Systems

Centre for Applied Climate Sciences

Centre for Crop Health

Institute for Resilient Regions

Rural Economies Centre of Excellence

Centre for Health Research

Centre for Heritage and Culture



“USQ’s Centre for Crop Health has the **second largest** group of plant pathologists in Australia.”

NEW PLANET DISCOVERIES

Together, USQ and NASA are searching for planets orbiting other stars using USQ's world-class Mt Kent Observatory.



Global challenge

A global search is on to find and remotely explore planets orbiting our nearest stars. What role does USQ play to better understand the universe?



Research

USQ's facility, with the MINERVA-Australis telescope, plays a critical role in learning more about the planets discovered by NASA's exoplanet hunter, the Transiting Exoplanet Survey Satellite (TESS).



World-class impact

USQ plays a leading role in confirming the existence of new worlds and learning more about them.

CUTTING-EDGE AGRICULTURE

USQ's partnership with John Deere is driving the global development of next generation agricultural technology, including machine automation and control, such as driverless tractors.



Global challenge

World food demand is increasing, yet productivity has slowed. Farming costs are rising, but commodity prices are not. How do farmers do more with less to combat food security challenges?



Research

USQ is working to develop the next generation of machine automation and control to improve productivity in all aspects of the growing cycle.



World-class impact

USQ's research benefits growers in Australia and the world by reducing agricultural production costs through precise management of farming inputs and maximising yields and profits with greater intelligence.

RESEARCH STRENGTHS

USQ's diverse research strengths cover a wide range of global and regional challenges to deliver solutions to improve the world.

Poverty elimination



GLOBAL CHALLENGE

Poverty and its association with water access in India, Nepal and Bangladesh. What measures can be implemented to improve these communities?



RESEARCH

The use of farming collectives is being examined to improve year-round access to water for irrigation for agricultural productivity and food security.



WORLD-CLASS IMPACT

Farming collectives improve community knowledge and new infrastructure allows farmers to irrigate in the dry season for higher value multi-cropping and more nutritious diets.

Cost-effective infrastructure



GLOBAL CHALLENGE

Nearly 90 per cent of Australia's existing timber sleepers will need replacement by 2025, estimated to cost more than \$1 billion. Can this be achieved in a cost-effective manner?



RESEARCH

USQ has proven that the strategic use of polymer composites in sleeper technology results in significantly less material and meets all safety requirements for a railway sleeper.



WORLD-CLASS IMPACT

The introduction of durable, sustainable and cost-effective sleepers will facilitate the development and growth of the Australian economy through improved railway infrastructure.

Greener concrete



GLOBAL CHALLENGE

The production of traditional cement has a heavy environmental footprint contributing to 8 per cent of global greenhouse gas emissions. How can this necessary product be more environmentally friendly?



RESEARCH

USQ is investigating a reactivity index for the use of industry wastes, such as fly ash, slag, red mud, river sludge and low-quality clay, to enable a geopolymer to be formulated according to the raw materials that are available locally.



WORLD-CLASS IMPACT

The use of geopolymer concrete has the potential to significantly reduce emissions. It has the same long-term performance as Portland cement, but without the environmental footprint.

Reducing obesity



GLOBAL CHALLENGE

Obesity and chronic lifestyle conditions are growing at exponential rates. How can Australian populations make healthier food choices?



RESEARCH

USQ is investigating the potential for functional foods to reverse human obesity and chronic inflammatory diseases affecting the heart, liver, kidney and joints.



WORLD-CLASS IMPACT

USQ is starting human intervention trials using the Queen Garnet plum in an elderly population to reduce risks associated with chronic lifestyle disorders.

Surviving cancer



GLOBAL CHALLENGE

Cancer is one of the leading causes of death in Australia and patients living in regional and rural areas experience poorer health outcomes than their city counterparts. How can cancer survival rates be equalised regardless of location?



RESEARCH

USQ's 'Travelling for Cancer Treatment' study investigates the socio-cultural, behavioural, psychological and health-system factors shaping the rates of cancer survival in regional Queensland.



WORLD-CLASS IMPACT

Partnerships and additional public investment in regionally-specific research and translational initiatives are vital for improving healthcare for regional Queenslanders. The Queensland Cancer Council is committed to working with USQ to address the survival disparity.

Securing food supply



GLOBAL CHALLENGE

There is pressure on farmers to produce more food with less resources. How can this be achieved while minimising environmental impact?



RESEARCH

USQ is developing innovative decision support systems and apps that draw on data, large scale modelling and cloud computing to help farmers whether they are in the paddock or the office.



WORLD-CLASS IMPACT

The development of online selection tools is helping farmers to make better decisions for the management of their agricultural enterprises.



Graduate Research School

The USQ Graduate Research School (GRS) is the entry point for all Higher Degree by Research (HDR) students. It oversees the conduct of all graduate research, and it is responsible for all researcher development and training initiatives.

GRS coordinates international and cross-sectoral partnerships for graduate research supervision and examination of theses. Its centralised, service-focused structure functions as a single point of contact for all HDR matters, playing an important role within the University's research environment, contributing to the successful learning outcomes for USQ's HDR students.

RESEARCH EXCELLENCE

USQ's primary research objective is to have global impact through its high quality research.

The high standing of USQ's world-class research is demonstrated by its strong performance in ERA, Australia's research quality assessment framework.

Areas of research assessed as world-class:

- A** Agricultural and Veterinary Sciences
Agriculture, Land and Farm Management
Astronomical and Space Sciences
- B** Biological Sciences
- C** Chemical Sciences
Civil Engineering
Clinical Sciences
Crop and Pasture Production
- E** Engineering
Environmental Science and Management
Environmental Sciences
- H** Historical Studies
Human Movement and Sports Science
- I** Information and Computing Sciences
Information Systems
Inorganic Chemistry
- M** Macromolecular and Materials Chemistry
Manufacturing Engineering
Materials Engineering
Mathematical Sciences
Mechanical Engineering
Medical and Health Sciences
Microbiology
- N** Numerical and Computational Mathematics
Nursing
Nutrition and Dietetics
- P** Physical Sciences
Psychology
Psychology and Cognitive Sciences
Public Health and Health Services

USQ continues to build a culture of excellence, engaging researchers, communities and industry stakeholders to produce world-changing research and renowned entrepreneurs and innovators.

STUDENT SUPPORT

USQ has a strong, supportive community that translates into providing dedicated and personalised support to students, researchers and alumni.

ACADEMIC SUPPORT

Practical services and resources to build study success.

ACCOMMODATION

High quality, affordable accommodation options to enhance the student university experience.

CAREER DEVELOPMENT

Offering students employment support and work-integrated learning opportunities to forge successful career outcomes.

ICONNECT

Centralised support space to provide personalised services to students.

SUCCESS AND WELLBEING

To equip students with physical, mental and emotional support for future success.



USQ stands strong on multiculturalism

USQ was the first Australian university to implement a formal policy on multiculturalism.

Today, a dedicated multicultural centre supports a diverse and vibrant international university community. The centre focuses on multiculturalism, internationalisation, multi-faith initiatives, regional and community engagement, education and transnationalisation.

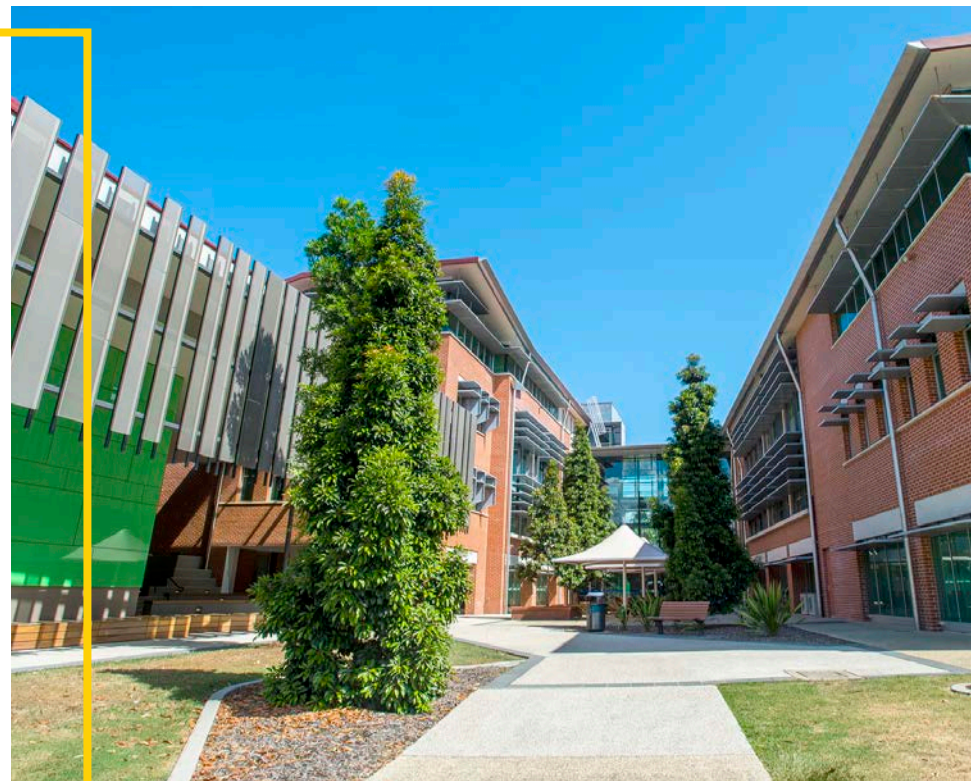
USQ works in partnership with its communities, industry partners and government agencies at all levels, to host vibrant international and multicultural activities.

Multicultural research is also conducted on modern multiculturalism, human rights, languages, anti-racism, community engagement and building multi-faith communities.

CAMPUSES

USQ Toowoomba

Toowoomba is one of Australia's largest inland cities and is a thriving regional hub for its surrounding communities. With approximately 160,000 people, Toowoomba is a dynamic centre with a diverse economy, relaxed lifestyle, reasonable living costs and access to public transport. USQ's main campus in Toowoomba is modern and equipped with a wide range of research facilities, services, on-campus accommodation and recreational activities.



USQ Ipswich

Ipswich is a historic city with modern shopping and dining options, parks, outdoor activities and access to public transport. USQ Ipswich is known as the hub for a variety of Nursing and Allied Health programs. It offers custom-built paramedical training facilities and new clinical nursing laboratories, a midwifery simulation centre, in addition to sports fields, a café and gym. USQ Ipswich also hosts a national award-winning library featuring a living rainforest.

USQ Springfield

With a fast-growing population, Springfield is one of the most dynamic urban growth areas in Queensland and is equipped with modern dining and shopping options and access to public transport. USQ Springfield is an innovation and technology focused campus. It offers practical exposure to various industries with a world-class aviation simulator, state-of-the-art television and radio broadcast facilities and an engineering laboratory.

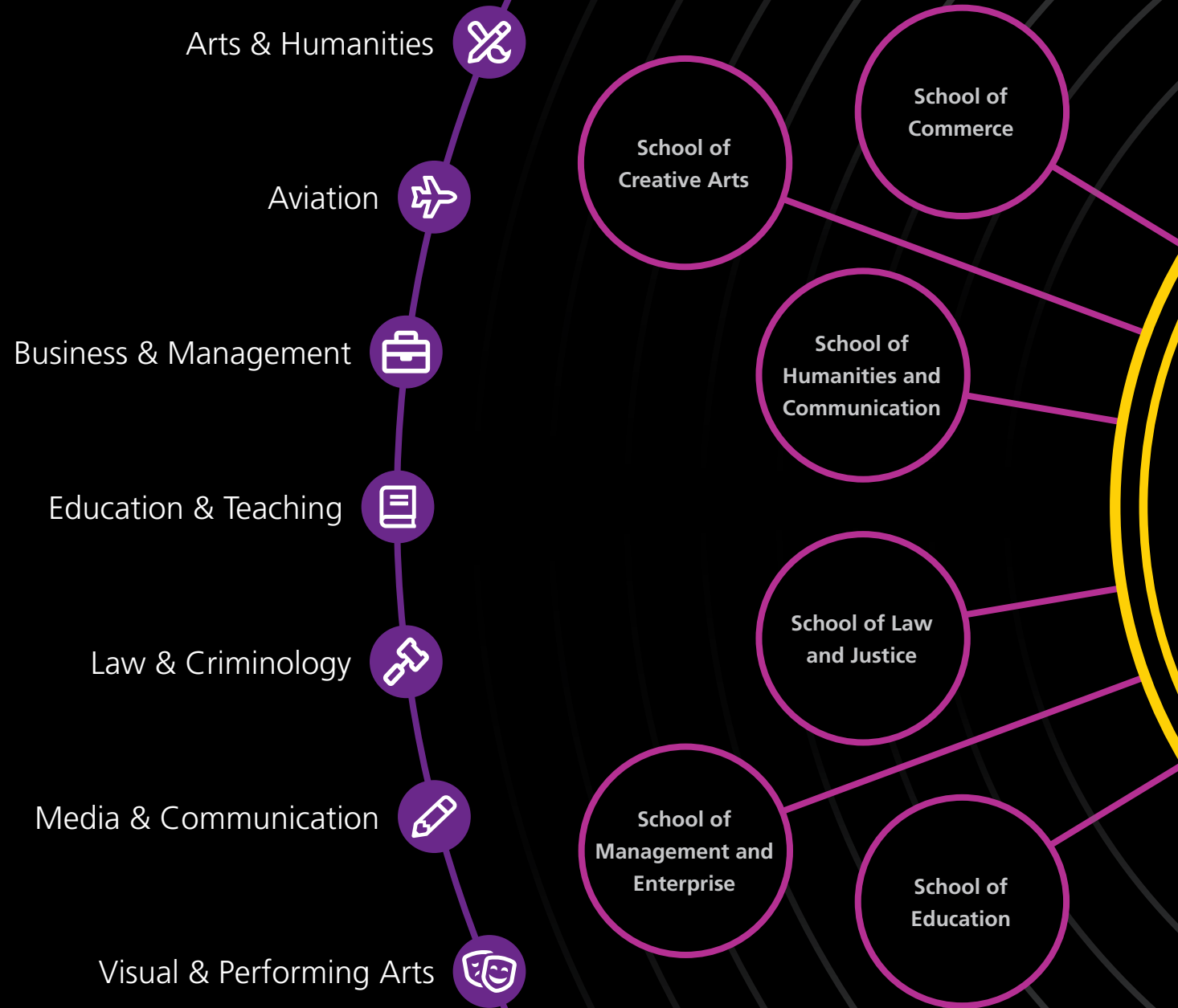


“USQ campuses are located in some of the **most affordable areas** in Queensland. Our international students benefit from low cost of living and a welcoming community.”



Queensland College of Wine Tourism

The Queensland College of Wine Tourism is a joint venture between USQ and the Department of Education, Training and Employment. This \$8.5 million education and training facility develops programs in partnership with the wine tourism industry.



TEACHING

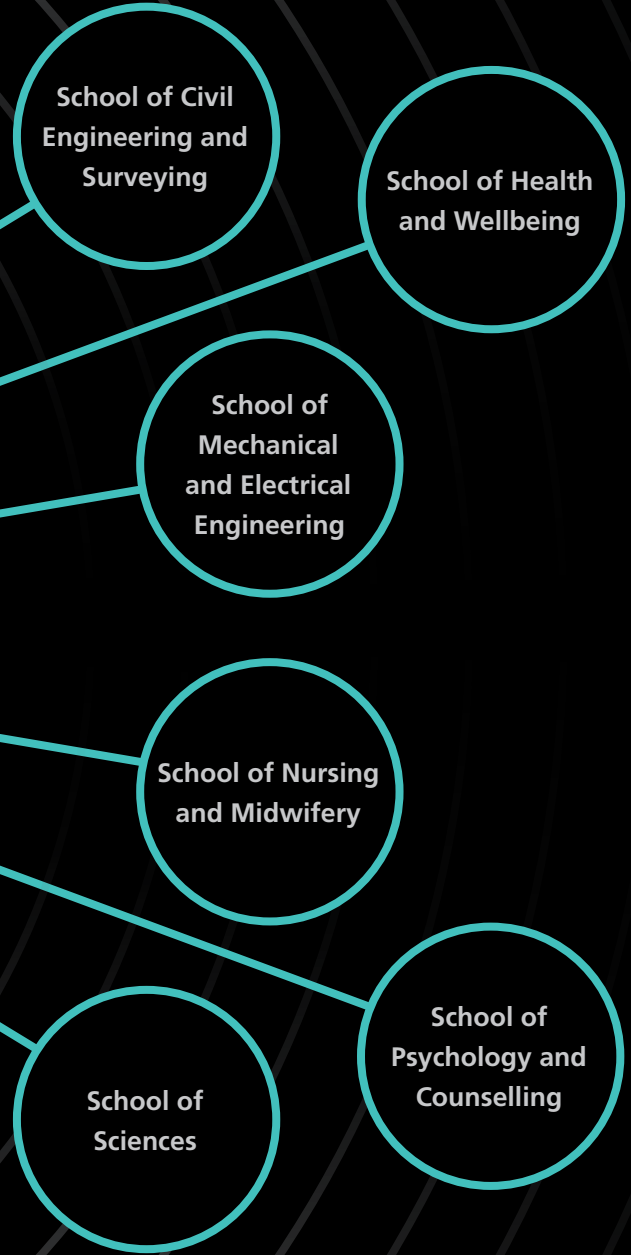
Business, Education, Law and Arts


This faculty is recognised for its global outlook and practical, high quality programs. It has strong and active ties with industry to remain at the forefront of current knowledge and thinking.

FACULTIES

Health, Science and Engineering

This faculty is renowned for its extensive engagement with relevant industries to provide practical skills and current information to produce graduates ready for international careers.

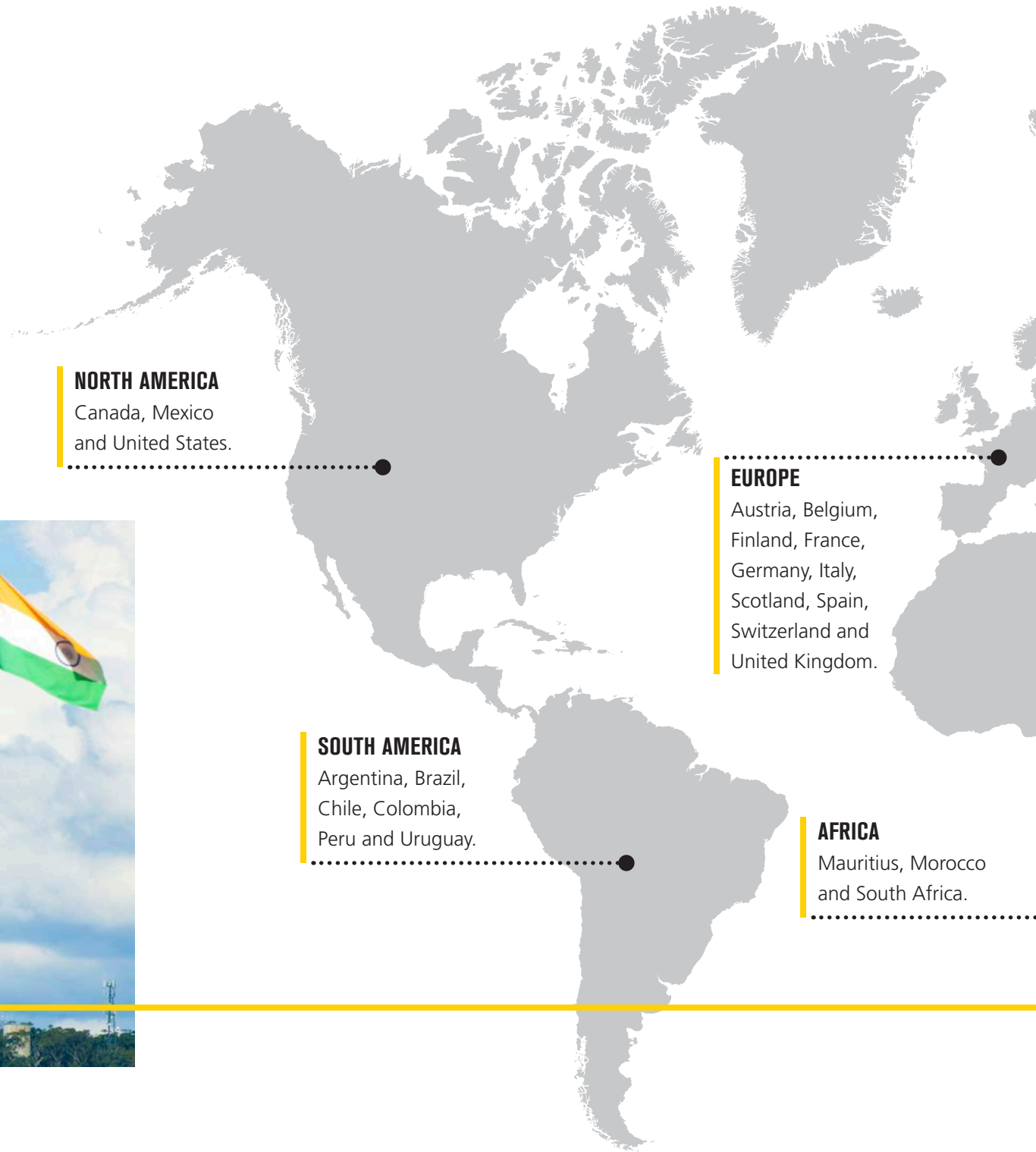


 Turn over to discover USQ's international reach.

USQ INTERNATIONAL

USQ has an extensive global partnership network with distinguished and respected education institutions to support joint research, learning and teaching and student mobility programs.

These partnerships allow USQ to expand its academic and research impact around the world, as well as deliver dual awards and collaboratively supervised Higher Degree by Research cotutelles.



NORTH AMERICA

Canada, Mexico and United States.

EUROPE

Austria, Belgium, Finland, France, Germany, Italy, Scotland, Spain, Switzerland and United Kingdom.

SOUTH AMERICA

Argentina, Brazil, Chile, Colombia, Peru and Uruguay.

AFRICA

Mauritius, Morocco and South Africa.



MIDDLE EAST

Oman, Russia and United Arab Emirates.

OCEANIA

Australia, New Zealand and Papua New Guinea.

ASIA

Bangladesh, Greater China (Mainland China, Hong Kong and Taiwan), India, Indonesia, Malaysia, Pakistan, Singapore, Sri Lanka, Thailand and Vietnam.

Global mobility options

USQ is active in the international education environment and offers global study experiences.

STUDY ABROAD AND EXCHANGE

USQ enables the international student cohort to spend 1–2 semesters at its campuses to experience Australian culture and lifestyle, develop intercultural and English language skills and obtain academic credit towards a current university qualification.

STUDY TOURS

USQ offers tailored study tours for those wanting to expand their international career, develop as an English teacher, or improve their English skills. Programs are offered to organisations, colleges and universities to provide professional development, education and exposure to cultural and sporting activities. Study materials, guest lecturers, workshops and excursions are included for a memorable experience of Queensland, Australia.

“USQ has a very strong research environment, with advanced equipment, rich library resources, and ***top research teams.***”

Jason (Visiting scholar, China)

ALUMNI

USQ has more than 106,000 engaged and supportive alumni from 146 countries. There are more than 15 active alumni chapters around the world.

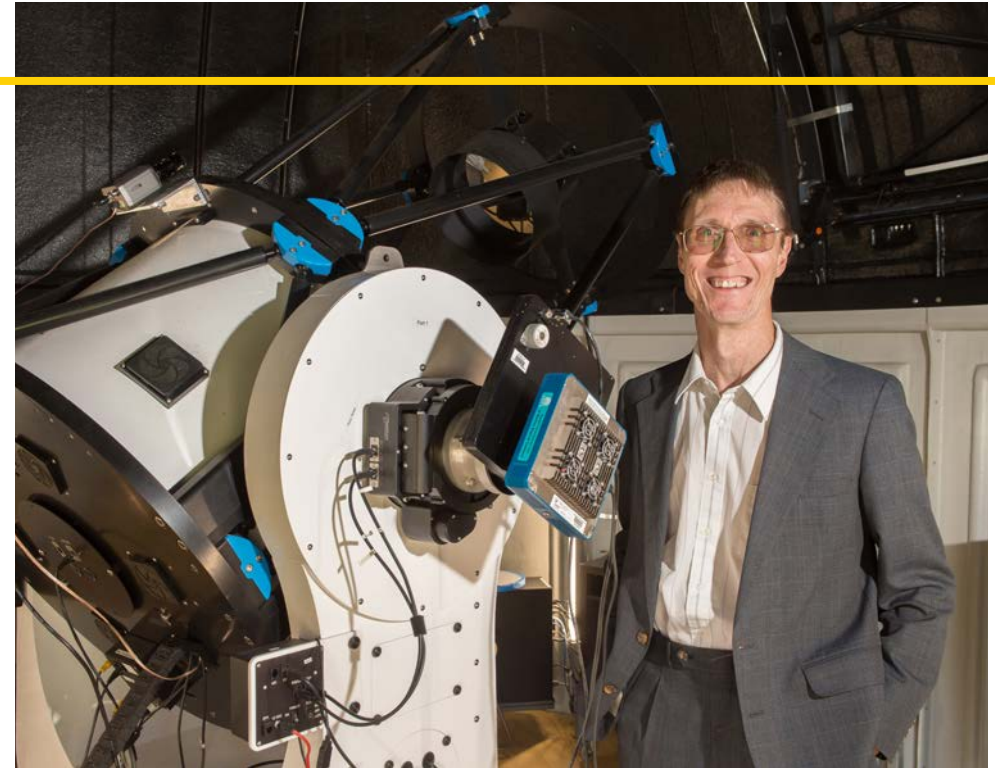


Rael Lange

Doctor of Philosophy

2016 RESEARCH/ACADEMIC ALUMNUS OF THE YEAR

- Research Director and Senior Scientist for the Defense and Veterans Brain Injury Center at the Walter Reed National Military Medical Center, Maryland, USA
- Responsible for a national program of research (USA) funded at more than USD\$45 million
- Award-winning researcher in clinical neuropsychology (civilian and military settings) at a national and international level.



Professor Sean Ryan

Bachelor of Creative Arts

Bachelor of Applied Science

2016 INTERNATIONAL ALUMNUS OF THE YEAR

- Professor of Astrophysics and Head of Science, Technology, Engineering and Mathematics (STEM) at the UK's Higher Education Academy
- Worked with the Hubble Space Telescope
- Researched the formation of elements across cosmic history and focuses on the birth of the Milky Way and the discovery of its oldest stars.

Heidi Dugan

Graduate Diploma of Applied Science

2018 INTERNATIONAL ALUMNUS OF THE YEAR

- Hosts popular cooking show You Are the Chef (Best Foreign Language Show two years running)
- Awarded 'Best Foreign TV Host' and 'Most Popular Foreign TV Host' on the International Channel of Shanghai
- Published author with book titled *Follow Me and Learn to Cook Like a 5 Star Chef*
- Assists companies enter the Chinese market.



Hoa Cruickshank

Master of Education

Master of Learning and Teaching Master of Business Administration

2018 ALUMNI SERVICE AWARD

- Managing Director of Vung Tau E-School, a private language centre in Vung Tau, Vietnam
- Managing Director of Phuc Gia Trading and Tourism Limited Company
- Founding member and Treasurer of USQ's Vietnam Alumni Chapter.



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