Studying in Queensland AUSTRALIA
Make the right decision

Important information to help you make the right decision about choosing Queensland, Australia for your postgraduate and research studies.
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Why Queensland, Australia?

Because it will give you the opportunity of a lifetime while studying in world-class institutions to achieve globally recognised qualifications.

The Queensland Government understands that students want world-class education, the flexibility to choose the right course from a comprehensive range of options and to study in an enjoyable, diverse, safe and vibrant community.

Choosing Queensland for your study requirements has many attractive benefits:

- Queensland is a leader in research and has:
  - nine major research centres in mining and energy
  - more than 40 major research centres in health and medical
  - 18 major research centres in environment and nature
  - 14 major research centres in food and agriculture
  - nine major research centres in ICT and multimedia
  - seven major research centres in the areas of defence, aviation and space
  - 20 major research centres in manufacturing and design.
- We are the only state with four international airports (Brisbane, Cairns, Townsville and the Gold Coast) which makes travel to and from your home country easier and more accessible.
- International students enrolled in full time accredited courses may be entitled to local transport concessions.
- Queensland has an enviable climate and lifestyle, with most of the state having warm and sunny weather for most of the year.
- Queensland has five of Australia’s 11 World Heritage sites and is home to many famous landmarks including the natural wonder of the Great Barrier Reef, the Daintree Rainforest, many tropical and idyllic islands, like World Heritage listed Fraser Island (the world’s largest sand island) and more than 200 national parks.
- PhD students and 576 visa holders may be eligible for free schooling depending on the Queensland public schools and their circumstances.

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International students and their families and friends will easily see why Queensland is one of Australia’s most attractive places to work and visit.
Major innovations in Queensland

- **Smartspeed™** was developed by Brisbane-based Fusion Sport and is the world’s first reactive training system with the potential to become a global standard in sports training and testing equipment.

- **Scramjet**, a Supersonic Combustion Ramjet developed by the University of Queensland, flew its first atmospheric flight test. In 2002, the University’s Hypshot Scramjet Engine was first used to boost a test vehicle to hypersonic speeds.

- **GroundProbe Slope Stability Radar (The SSR™)** is a world-first combination of radar and visual information that allows mine managers to build a full picture of slope stability and make better decisions. This technology was 100% developed at the University of Queensland.

- **Sterile Blade Remover** was developed by Brisbane based company Qlicksmart to make scalpels safer, reducing the risk of injury to doctors and nurses and reducing local accidents involving scalpels by half.

- **The world’s first multi-focal contact lens** was invented by optical research scientist, Stephen Newman in Queensland.

- **Anti-pollution applications** were developed by the University of Queensland including:
  - Nanoporous molecular sieves as powerful catalysts for breaking down noxious pollutants and for reducing greenhouse gases.
  - Nanocrystalline photocatalysts for water purification by using sunlight to break down organic pollutants.
  - A new class of membrane which acts as a molecular scale filter for gases such as carbon dioxide, nitrogen, carbon monoxide and methane.

- **Stinger resistant swimming enclosures** developed at James Cook University have been set up on North Queensland beaches to protect swimmers against box jellyfish stings; 28 enclosures are now in operation.

- **MRI technology**, a medical technology called Magnetic Resonance Imaging was invented at the University of Queensland and 75% of the MRI scanners in the world today use this technology.

- **Nanopatch**, a needle-free vaccine delivery device was invented by Professor Mark Kendall from the University of Queensland. The Nanopatch technology has been licensed to US-based pharmaceutical company Merck & Co.

Source: information provided by the Queensland universities mentioned above.
Why choose Queensland for your postgraduate and research studies?

The strength, scope and value of Queensland’s universities’ global research projects.

National and international government and commercial partnerships

The Queensland Government works closely with researchers to ensure Queensland gets maximum benefit from national and international projects and partnerships.

Queensland is an internationally recognised hub for scientific education, research, development, commercialisation and innovation. A 2013 report ‘Health of Queensland Science' produced by the Office of the Queensland Chief Scientist outlined Queensland’s research and development performance and its position in Australia and against world standards. Key areas include:

Queensland’s key research areas and publication success

• In 2012, Queensland’s areas of greatest research activity (as judged by publication volume) were in the broad life sciences field, which includes medicine, agricultural and biological sciences, biochemistry, genetics and molecular biology.
• These, together with other life sciences, accounted for approximately 55% of Queensland’s research publication output. This means, the proportion of life sciences research being undertaken in Queensland is higher than any other state in Australia as a whole (48%) as well the global average of 40%.

International research collaboration

• A highly collaborative research sector is a sign of a healthy research sector, one that is working and learning from the best.
• In 2012, 45% of publications with a Queensland affiliation also had an author or collaborative institution from overseas.
• Queensland and Australia do relatively well in international collaboration especially compared to the US and the emerging Asian scientific powerhouses, where rates are typically under 25%.

• Queensland has a strong research infrastructure platform and is investing in people, ideas and partnerships to drive creativity and innovation.
• Future science and research programs supported by the Queensland Government include:
  • A$4.77 million to attract and retain researchers in science and industry
  • A$51 million on cutting-edge research infrastructure
  • A$23.5 million to support collaborative partnerships between research and industry.

Queensland’s leading position and strong research partnership internationally

• In 2012, Queensland had research partners (as measured by co-authored publications) in 150 countries across the world.
• Queensland is a leader in tropical research and the Queensland Government is investing A$42 million to help establish the Australian Institute of Tropical Health and Medicine. This institute will enhance the state’s ability to provide new solutions that improve the health of the world’s population living in tropical climates.
• Queensland life sciences are globally competitive, with the capability to meet international challenges and deliver new commercial opportunities.
• Our research partners include the US, UK, Japan, Italy, Netherlands, France, Germany, UK, Switzerland, Spain, Russia, Canada, New Zealand, India and China.
• In recent years, there has been a substantial increase in our collaborations with China. The number of Queensland/China co-authored publications has grown nearly 650% in the past decade (compared to a 250% increase in total Queensland publications).

Support services and orientation for students studying in Queensland

Most Queensland education providers and institutions offer international students a variety of support services to help adjust to life in Australia including:

- airport reception
- accommodation placement
- orientation programs to provide very useful information about courses, the organisation as well as living, studying and working in Queensland
- social and recreational activities
- welfare advice and counselling
- emergency and health services.

What’s it like to live in Queensland?

Lifestyle and environment

Queensland has modern, cosmopolitan cities and laid back coastal and regional towns. It has a clean and green natural environment and international students can enjoy a fantastic climate and diverse leisure activities in one of Australia’s most attractive places to live, work and study. Queensland’s tourist destinations are among the most popular in Australia.

Tropical North Queensland

Cairns is a vibrant city located in the heart of Tropical North Queensland. Framed by the spectacular rainforest mountain ranges and the sparkling Coral Sea, Cairns is within easy reach of the World Heritage listed Wet Tropics rainforest, the Great Barrier Reef and the Outback.

Townsville is Australia’s largest tropical beachside city with a safe, friendly and welcoming lifestyle. Surrounded by a rich hinterland of tropical rainforests and waterfalls, Townsville is located close to historic gold mining towns, the Outback, islands and the Great Barrier Reef.

Central Queensland

Rockhampton is located in Central Queensland and was built on the wealth of gold rushes and cattle empires. A city steeped in country charm, Rockhampton has weekly rodeos, long stretches of sunburnt country, beautiful forests and beaches.

South East Queensland

Brisbane is the capital city of Queensland and the third largest city in Australia. Brisbane boasts the attractions and facilities of a large city yet is considerably more relaxed that its southern counterparts, Sydney and Melbourne. A modern city with an innovative and vibrant edge, Brisbane enjoys a subtropical climate and outdoor lifestyle.

Toowoomba is Australia’s largest inland regional city and is an economic hub of the region. A modern mountain city, Toowoomba is also known as Queensland’s Garden City. It boasts beautiful heritage buildings and more than 150 parks and gardens. It is also a treasure trove of tradition and culture with growing arts, food and wine industries.

The Sunshine Coast

This area offers a laid-back lifestyle in a small and safe environment. Free of the hustle and bustle of the city, the Sunshine Coast still offers world-class dining and shopping. With clear blue skies, fresh clean air, bright sunny days and long stretches of beautiful beaches, the Sunshine Coast is a favourite holiday destination for local and international visitors.

The Gold Coast

This area offers stunning beaches, a magnificent hinterland, an abundance of action-packed activities, first-class shopping, restaurants and nightlife. The Gold Coast is a collection of cultures with close to a quarter of its residents born overseas. This multicultural society provides a safe and accepting environment where people have an appreciation for diverse cultures and lifestyles.
Accommodation options
A wide selection of high-quality and affordable options from renting to homestay accommodation is available for international students. Rental accommodation ranges from studio and one bedroom apartments, to large houses, which are often rented by a number of people who live together as housemates. Sharing accommodation is often more affordable than living alone and is a good way to make friends. Homestay accommodation, where students are usually provided their own room and most meals, offers the chance to experience life as part of a Queensland family, learn about Australian culture and improve English language skills.

Is it easy to get around?
Although Queensland is a very large state, there is a comprehensive transport network and motorway system, which allows international students to explore the state and its attractions with relative ease. Queensland has four international airports (Brisbane, Cairns, Townsville and the Gold Coast) and the many regional and island airports serviced by multiple airlines make air travel an efficient, reliable and affordable way to explore the state.

Your safety, health and protection
The safety of international students is vitally important to the Queensland Government and education providers. Queensland is safe by world standards. It has a vibrant, multicultural society where other students, teaching staff and the broader community readily accept and welcome international students. For many international students, the friends they make while studying in Queensland is one of the highlights of their education experience here.

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Queensland’s key industries, research strengths and institutes

As well as world-class education and industry in a wide range of areas from business to the arts, Queensland is a leader in the following industries:

**Mining and energy**

Queensland is a global leader in the export of coal and other raw and refined commodities and has a broad base of significant industries associated with mining. National and international mining organisations have long recognised Queensland’s vast resources and world-class mining expertise. The Queensland mining technology and services industry has a worldwide reputation for providing solutions to the global mining industry using technologies such as robotics, satellite imaging and three-dimensional (3D) visualisation.

Queensland’s researchers and education providers work collaboratively with the mining industry to develop innovative training programs that address the needs of this global industry.

Queensland maintains its competitive edge in the mining industry through:

- advanced technology in mining exploration
- sophisticated and efficient infrastructure
- leading research and development of innovative technologies such as robotics, satellite imaging and 3D visualisation
- strengths in chemical production, mineral processing and power generation
- highly skilled labour force with access to leading educational and training facilities
- high standards in mining safety and mine rehabilitation
- regional and global headquarters of international mining companies providing employment opportunities.

Queensland is ideally positioned to develop alternative fuels because of the state’s strong combination of world-class researchers and a long-term competitive advantage in the production of key alternative fuel feedstocks such as sugar, grains (particularly sorghum), coal and coal seam methane.

Institutes and major research centres:

- Advanced Analytical Centre
- Baosteel-Australia Joint Research and Development Centre
- Centre for Mined Land Rehabilitation
- Economic Geology Research Centre
- Geothermal Energy Centre of Excellence
- Queensland Centre for Advanced Technologies
- Queensland Minerals and Energy Academy
- Sugar Research Institute (biofuels)
- Sustainable Minerals Institute.

**Mining innovation**

Did you know that The University of Queensland developed the world’s first ‘slope stability radar’ that helps to improve mining safety for open cut mines? The GroundProbe Slope Stability Radar (The SSR™) has changed the face of open-cut mining, improving safety, productivity and profitability.

The Groundprobe SSR™ is a world-first combination of radar and visual information that allows mine managers to build a full picture of slope stability and make better decisions. In the midst of a worldwide mining boom, the world’s largest mining companies are using the SSR on more than 150 sites in 19 countries.

Considered world’s best practice, GroundProbe SSR™ was 100% developed at The University of Queensland.
Engineering

Queensland offers a range of theoretical and practical engineering education and training in fields such as agriculture, avionics, construction, chemistry, electronics, environment management, mechanics, mining and transport.

With close links to industry, Queensland’s education providers deliver industry-affiliated programs that provide students with the skills and experience they need for their future roles in engineering. These programs equip students with experience, job-ready skills, self-confidence and valuable industry contacts.

Queensland’s engineering strengths include:

• globally recognised research and development
• excellent infrastructure and facilities
• courses in chemical, mechanical and environmental engineering
• courses in emerging fields such as aerospace, biomedical and infomechatronics engineering
• close partnerships with industry that provide practical work experience
• culture of innovation and use of cutting-edge technology.

Engineering innovation

Queensland University of Technology’s Robotics lab, with industry partner Swarm Farm, has developed the AgBot, a lightweight robot that can eradicate weeds in 4000 hectare farms. The advancement of robotics in farming will also allow farmers to save on the labour costs which comprise some 40% of production costs in some farming sectors, and can save the Australian wheat industry up to $A620 million a year in crop weeding alone.

Queensland has a long standing record of achievement in railway engineering research. This is attested to by CQUniversity’s key participant status in three consecutive Cooperative Research Centres in railway research, numerous research grants, research higher degree completions and international collaborations, including with France (Faiveley) and Indian National Railways. Professor Colin Cole and his team at CQUniversity will be a key research provider for the new Rail Manufacturing CRC, an A$31 million Australian Rail project.
Queensland’s key industries, research strengths and institutes

**Biotechnology**

The Queensland biotechnology industry spans the health and medical, agricultural, environmental and industrial sectors.

Queensland offers an integrated approach, from discovery through to the BioPharmaceuticals Australia scale-up manufacturing facility and clinical trials, to translational research and a progressive regulatory environment.

Queensland’s life sciences industry boasts:
- 252 companies in the life sciences industry (2011)
- 86 core biotechnology companies (2011)
- 47 biotechnology related research institutes employing about 5871 researchers (2011)
- Revenues of A$600 million for biotechnology companies and A$1.07 billion for biotechnology related institutes (2011)
- Investment of A$4.9 billion to boost Queensland’s research, development and innovation.

Queensland has a strong research infrastructure platform and is investing in people, ideas and partnerships to drive creativity and innovation. Future science and research programs supported by the Queensland Government include:
- A$4.77 million to attract and retain researchers in science and industry
- A$51 million for cutting-edge infrastructure
- A$23.5 million to support collaborative partnerships between research and industry.

The Queensland life sciences industry employs more than 14,000 people, invests A$650 million in research and development, and has an estimated combined income of A$4.4 billion. With dynamic institutes, access to an impressive research and skills pool, strong government support and world-class infrastructure, Queensland is the place for life sciences study.

Queensland is a highly attractive knowledge hub with successes in health, agriculture, environment and industrial biotechnology. The state has unique biodiversity, world-class skills and infrastructure with more than 40 major research centres in health and medical.

The Queensland Government encourages science and innovation for economic success through:
- investing in biotechnology research and its commercialisation
- streamlining business regulations
- supporting world-class research precincts and centres of excellence
- translating knowledge from key international alliances into new products and services.

**Environmental innovation**

**Did you know** Queensland is leading the way in environmental conservation?

An innovative software program developed at The University of Queensland is combining maths, economics and ecology to help protect the world’s marine parks. The Marxan program has been used to support the design of some of the world’s most famous marine conservation areas including the Great Barrier Reef, the Galapagos Islands, the Baltic Sea and California.

Developed by a group led by the University of Queensland’s Professor Hugh Possingham, the Marxan is considered to be the most significant contribution to conservation biology to emerge from Australia’s research community.

**Environmental innovation**

The Great Barrier Reef Marine Park Authority is using genetic and stable isotope applications developed at James Cook University to track fish larvae, enabling assessment of the efficacy of zoning practices.
Health and medical

Queensland’s health and medical research expertise is built upon a foundation of molecular biologists, bioinformatics and proteomics experts. It is a great place for students wishing to pursue studies in health and medical fields.

The state has become a centre of excellence for research and application of cell-based technologies, including advanced therapies for cancer. Queensland researchers are also world leaders in viral, bacterial and parasitic infection research, with tropical diseases being a particular strength.

Combined with the state’s research base, Queensland’s biodiversity is benefiting institutes and companies in biodiscovery:

• EcoBiotics Ltd is conducting clinical trials of anti-cancer compounds found in rainforest plants, to treat a range of tumours in cats, dogs and horses.
• The Australian Institute of Marine Science is exploring options for the short-term supply of marine bioactive compounds as potential drug leads, many coming from sponges.
• Eskitis Institute for Drug Discovery is searching for new drugs from nature to target neglected diseases, primarily malaria and African sleeping sickness.
• Compounds Australia, Australia’s first complete compound management and logistics facility for small molecules and natural product extracts, is forming collaborations between Australasian chemists and biomedical researchers and their international colleagues.
• The Mosquito Research Facility at James Cook University is testing Wolbachia bacteria in field trials to control dengue fever.

Health innovation

A radically new method of treating children with polio was developed by Sister Elizabeth Kenny, a bush nurse working in Queensland and New South Wales, whose work went on to be internationally acclaimed for providing important foundations to modern day physiotherapy.

Vaccines and diagnostics

Queensland institutes and infrastructure are suited to researching, developing and commercialising vaccines and diagnostics as evidenced by the success of the following centres:

• Centre for Immunotherapy and Vaccine Development encompasses multi-disciplinary expertise required for vaccine development and expertise in basic and applied immunology, pathogenesis, molecular and structural biology.
• The Australian Infectious Diseases Research Centre is working in areas of infectious disease, with the goal of connecting basic and translational research. The centre brings together bacterial, viral and fungal disease researchers with Queensland Health infectious disease physicians and The University of Queensland’s experts in nanotechnology, structural biology, cell biology, immunology and therapeutic development.
• Diamantina Institute is where scientists made the discoveries that formed the basis of the world’s first cervical cancer vaccine. Gardasil® is now globally marketed by Merck & Co.
• Alere Inc (previously Inverness Medical Australia) develops tests and health management programs in cardiology, women’s health, infectious disease, oncology and drugs of abuse. In 2008 it acquired Panbio, the first developer to market diagnostics for Ross River virus, West Nile virus, Japanese encephalitis and dengue fever. Alere’s technical platforms include an enzyme-linked immunosorbent assay and rapid lateral-flow technology.
Medical innovation
Did you know Queensland has a great invention that helps save lives? The cervical cancer vaccine Gardasil®, the world’s first vaccine to prevent cervical cancer with the potential to save hundreds of thousands of lives, was developed by Professor Ian Frazer and his colleagues at The University of Queensland during the 1990s and approved for use in the United States of America in 2006.

Regenerative medicines
Queensland’s reputation in regenerative medicine is built on its excellent grounding in stem cell research and the achievements of research entities:

- The National Adult Cell Centre focuses on olfactory adult stem cell research for application in regenerative medicine.
- The Queensland Brain Institute is unravelling the fundamental mechanisms that regulate the brain to discover new treatments for mental health disorders and neurodegenerative diseases.
- Tissues Therapies Ltd is developing biomedical technology for wound healing, tissue regeneration and various cell culture applications.
- Mater Research explores adult stem cell research to improve the treatment of diseases such as leukaemia and lymphoma, and for regenerative medicine.
- The Australian Institute for Bioengineering and Nanotechnology researches the complex molecular mechanisms that govern human embryonic stem cell biology.
- The Institute for Molecular Bioscience uses adult stem cell research to help address chronic kidney disease.

Clinical trials
Conducting clinical trials in Australia can provide significant business value in costs and time, while generating data that is acceptable in North American, European and Asian jurisdictions.

The Queensland Clinical Trials Network Inc assists developers of human therapeutics and devices to distribute preclinical and clinical research to the network’s ‘best-of-breed’ cluster of service providers. The network provides efficient access to Australia’s:

- modern and efficient regulatory and legal environment
- highly qualified researchers and clinicians
- advanced facilities for translational research preclinical trials and bioinformatics
- low-cost clinical trials
- first-world comparator drugs
- highly concentrated populations in urban areas.

The network represents over 90 research and development service providers, including the following organisations:

- TetraQ is a contract research organisation providing a range of integrated and tailored preclinical services globally to the pharmaceutical and biotechnology industries.
- The Wesley-St Andrew’s Research Institute (WSARI) is a purpose-built centre dedicated to conducting clinical trials and providing a tissue bank that supplies invaluable materials to researchers, progressing the understanding of cancer and other diseases.
- QPharm, a clinical trials company, specialises in Phase I and II trials, and bioequivalence and bioavailability studies. Early phase trials are conducted on small molecule pharmaceutical products, biotechnology products and complementary medicine products.
- The Queensland Facility for Advanced Bioinformatics is one of Australia’s largest bioinformatics service providers. It supports the bioinformatics requirements of research-intensive universities, institutions and life sciences companies.
Queensland’s key industries, research strengths and institutes

**Medical innovation**

We are very proud of our flying doctor service here in Queensland. Our first Royal Flying Doctor Service operated its first flight out of Cloncurry in an aircraft on-loan from the Queensland and Northern Territory Aerial Service (Qantas) back in the 1950s.

**Health innovation**

Did you know that in 2010, Professor Kerry Reid-Searl from CQUniversity Australia created MASK-ED™ (KRS simulation), a high fidelity simulation technique? This technique is informed by a teaching process and involves realistic body silicone props including masks, torsos, arms and legs worn over the informed educator to mask them.

Professor Kerry Reid Searl’s MASK-ED™ and PupEd innovations are major innovative contributions that have received a number of patents, trademarks, growing international sales, numerous national and international awards and recognition.

**Agricultural biotechnology**

The Queensland Government is investing heavily in agricultural research programs ranging from beef probiotics, identifying additional genes affecting tenderness and marbling, and controlling livestock parasites with fungi, to improving productivity and quality in cereals, pulses and oilseeds, fodder, fibre and specialty crops to meet market demands and add value to products.

The Queensland Alliance for Agriculture and Food Innovation is an institute of The University of Queensland and was formed through an alliance between the university and the Queensland Government. It brings together researchers from across plant, animal and food sciences. The institute represents a significant alliance in tropical and subtropical agriculture, and food research and development. As such, it provides unique opportunities to partner and invest in research projects, training and teaching initiatives, and in the development of innovative technologies and products.

**Agriculture innovation**

In 2005, a world-first banana biofortification project at Queensland University of Technology was offered an A$1.49 million (US$1.1 million) grant from the Grand Challenges in Global Health initiative to help improve the health of malnourished Ugandans and potentially other populations in the tropics.

The global health project, Development of Bananas with Optimised Bioavailable Micronutrients, has seen scientists from QUT’s Institute of Health and Biomedical Innovation boost the nutrient content of the banana variety that is the staple diet in Uganda. The grant is funded by the Bill & Melinda Gates Foundation.

**Creative industries**

Knowledge, innovation and passion drive Queensland’s creative industries. Queensland’s education providers work closely with industry partners to provide students with access to the facilities, teachers and opportunities to help build creative careers.

Queensland offers teaching and research relevant to current practice, cutting-edge technology and strong partnerships with industry to provide students with a practical learning experience.

**Creative innovation**

Did you know Queensland is home to the world famous video game Fruit Ninja invented by Halfbrick Studios in Brisbane (by QUT graduates) where players slice fruit with a blade. The game was well received by critics and consumers worldwide. Fruit Ninja has reached more than 500 million downloads!
Queensland’s key industries, research strengths and institutes

Aviation and aerospace
Queensland is home to a growing aviation industry employing more than 14,000 people and backed by a strong education and training base. More than 15 organisations are registered to provide training to international students across a wide range of aviation and aerospace courses throughout Queensland.

Queensland maintains its competitive advantage in aviation and aerospace through:

- world-class aviation education and training
- strong alliances with local industry and Queensland Government support
- globally-recognised research and development in aerospace automation, hypersonics, autonomous systems and advanced composites
- a competitive and innovative aviation industry comprising firms from small to medium enterprises to international corporations.

Aviation innovation
The world’s next generation of aircraft and medical implants are being built using titanium manufacturing technology developed with The University of Queensland. The F-35 Joint Strike Fighter aircraft is the centerpiece of new defence programs being developed by Australia, the US and eight other partner countries. Now researchers from the university, headed by Associate Professor Matt Dargusch, are leading research programs within the CAST Cooperative Research Centre and the Defence Materials Technology Centre that have created the technical capability that allows Australian manufacturers to play a key role in producing the precision titanium components used in the construction of this aircraft.

Queensland is an aviation and aerospace hub in the Asia-Pacific region. It has earned acclaim for its excellence in:

- advanced maintenance, repair and overhaul facilities and support services
- world-class education, training and simulation activities
- leading-edge logistics
- unmanned airborne vehicle research and development facilities.

Institutes and major research centres:
- Australian Research Centre for Aerospace Automation
- Aviation Australia (training)
- Centre for Hypersonics (The University of Queensland)
- Boeing Research and Technology
- Queensland Centre for Advanced Technologies (CSIRO).

For more information and more Queensland research centres please visit: www.business.qld.gov.au/industry/science/scientific-research/key-areas

Aviation innovation
Airports of the Future, a research project spearheaded by Queensland University of Technology staff, has resulted in an 80% reduction in passenger waiting times at Brisbane airport security points, taking them from 20 minutes to 3.9 minutes. Developed in conjunction with numerous Federal Government departments, the project has reduced current airport costs by 20% and has the potential to positively impact airport operations worldwide.
Queensland’s research institutes

Queensland universities*

Australian Catholic University
Bond University
Central Queensland University
Griffith University
James Cook University
Queensland University of Technology
Southern Cross University
The University of Queensland
University of Southern Queensland
University of the Sunshine Coast

Biotechnology

Australian Institute for Bioengineering and Nanotechnology
BioPharmaceuticals Australia
Eskitis Institute for Drug Discovery
Queensland Bioscience Precinct incorporating CSIRO and Institute for Molecular Bioscience
Translational Research Institute (Princess Alexandra Hospital)

Health and medical

Australian Institute of Tropical Health and Medicine
Centre for Medical Diagnostic Technologies in Queensland
Clive Berghofer Cancer Research Centre
Diamantina Institute
Institute for Glycomics
Institute of Health and Biomedical Innovation
Institute for Molecular Bioscience
Pharmacy Australia Centre of Excellence incorporating UQ Health Care Centre
Queensland Brain Institute

Clinical trials

Centre for Integrated Preclinical Drug Development, incorporating TetraQ
Mater Research
QIMR Berghofer Medical Research Institute
Wesley-St Andrew’s Research Institute (WSARI)
Queensland’s key industries and strengths

Food and agriculture

Australian Tropical Forest Institute
Australian Tropical Sciences and Innovation Precinct
Centre for Advanced Animal Science
Ecosciences Precinct
Health and Food Sciences Precinct
Mackay Renewable Biocommodities Plant
Queensland Alliance for Agriculture and Food Innovation

Queensland’s excellence in higher education research

All of Queensland’s universities conduct research into a wide range of discipline areas and participate in national and international projects through collaboration with government, industry and other research institutes.

The following section outlines the excellence of higher education research in Queensland and details some of the leading research projects currently being undertaken in our ten universities.

For more information and more Queensland research centres please visit: www.business.qld.gov.au/industry/science/scientific-research/key-areas

* In Alphabetical order
Australian Catholic University (ACU)

**Number of students**
5,224 (Brisbane campus), 30,333 nationally

**Number of international students**
412 (Brisbane campus), 3146 nationally

**Campuses**
Brisbane, North Sydney, Strathfield, Melbourne, Canberra, Ballarat, Adelaide

* Currently not offering CRICOS registered courses

**Student enquiries**
- +61 3 8676 7040
- study.international@acu.edu.au
- www.acu.edu.au
- www.acu.edu.au/research
- www.acu.edu.au/international

**CRICOS codes**
00004G

Australian Catholic University (ACU) strives to empower students to think critically, act ethically and bring about positive change in their communities and professions.

With more than 30,000 students across seven campuses, ACU is the largest English-speaking Catholic university in the world. As a publicly-funded university, ACU also welcomes staff and students of all beliefs and backgrounds and is committed to providing equal access to education for all people.

**Ranking**
ACU is highly ranked (4-5 star) by The Good Universities Guide 2012 for staff qualifications, student demand, staff/student ratio and cultural diversity, assuring you a high-quality academic and social experience.

The most recent report by the Australian Universities Quality Agency (AUQA), commended ACU for its highly supportive student environment, the outcomes it has achieved for Indigenous students and its positive engagement with the community.

ACU’s MBA has been ranked at number 8 in the IGF Australian rankings, and number 17 in its Global Top 20 table (CEO Magazine, International Graduate Forum 2013 MBA Rankings).

ACU is committed to developing a specialised and high-quality research environment. Research students are an integral part of the research culture. We offer a wide range of opportunities to undertake supervised research at either the master’s or doctoral level in research institutes and schools. Both traditional (PhD) and professional (EdD) research doctorates are available, as well as master’s level research degrees.

ACU is home to five research institutes, with specialised research strengths:

**Institute for Learning Sciences Australia**
- Assessment, evaluation and student learning
- Enhancing literacy and engagement for overcoming disadvantage
- Mathematics futures for all
- Early childhood futures
- Enhancing children’s safety and life chances
- Promoting healthy development and inclusion in families, schools, and communities
- Learning innovation and development through education and the arts: transitions, inclusion and success.

**Institute for Health**

**Cardiovascular disease and metabolism**
- Cardiovascular disease
- Cardiac/diabetes care
- Stroke

**Health services research**
- Cerebral palsy
- Midwifery

**Movement and rehabilitation**
- Exercise and nutrition
- Sports injuries

**Psychology and mental health:**
- Psychological intervention and mental health.
Institute for Positive Psychology and Education
- Positive lifelong education
- Positive SELF and well being
- Positive psychology in health and medical education
- Positive indigenous studies
- Positive substantive-methodological synergy
- Positive psychology and maladaptive behaviour

Institute for Social Justice
Rethinking social ideals
- Rethinking rights and justice
- Diverse struggles for freedom
- Human-Nonhuman relationships in the anthropocene
- Economic justice, care and well being

Addressing social issues
- Secularism and religious diversity
- Indigeneity and indigenous governance
- Gender, race and class: intersecting oppressions
- Migration
- Democratic processes of public reflection and action

Institute for religion and critical inquiry
- Biblical studies and early christianity
- Catholic thought and practice, including inter-religious dialogue
- Moral philosophy and applied ethics
- Philosophy and phenomenology of religion
- Religion and society

ACU’s growing research reputation is reflected in its steadily increasing research outputs and success at winning national competitive research income. For example, Professor Christine Imms from the Faculty of Health Sciences has been awarded a NHMRC Partnership Projects Grant of $865,853 for her project, ‘The best service at the best time: Improving the implementation of research for children with cerebral palsy.’ This was the highest amount awarded in this specific round, and the grant will be administered by ACU.

Student testimonials
“At ACU, I met people from different parts of the world and their experiences enriched mine. During the time I spent there, the lecturers and the people from the international department were always willing to help and were always there for me. I got to know many places in Queensland and bond with classmates from different countries. Regarding the quality of education, I can say it is of a high standard in a friendly environment.”

Massiel Johanna Salfate Venegas, Chile
Master of Teaching (Primary)

“ACU is proactive and sensitive to the needs of its students as well as the community. I share the mission of the university in promoting positive change at communities through innovative research and advancement of knowledge in different areas, and ultimately, to be of service to people. Also, ACU is pioneering community engagement that provides opportunity to disadvantaged individuals to pursue their university education. ACU develops a culture of caring for one another to ensure that students will have a worthwhile experience.”

Nicamil Sanchez, The Phillipines
Recipient of Australian Leadership Awards 2011 and PhD Student at ACU
As Australia’s first private, not-for-profit university, Bond University seeks to be recognised internationally as a leading independent university, imbued with a spirit to innovate, a commitment to influence and a dedication to inspire tomorrow’s professionals.

Research activity at Bond University has continued to grow and is a key focus for the university staff who are committed to contributing to the body of knowledge they teach.

**Ranking**

In the 2012 Excellence in Research for Australia (ERA) Assessment, Bond University received a rating of ‘above world standard’ for three fields of research: medical and health sciences, clinical sciences, and public health and health services and a rating of ‘at world standard’ for four fields of research: law, human movement and sports sciences, business and management and law and legal studies.

**Excellence in Research**

Since 2009, Bond University’s research has grown significantly across a number of disciplines and external research income has grown by 203%.

The expansion of the Faculty of Health Sciences & Medicine has attracted international researchers, a range of new grants and University Research Centres including:

**Collaborative Research Network (CRN) for Advancing Exercise and Sports Science**

Bond University is the lead institution of a Commonwealth funded Collaborative Research Network (CRN) for Advancing Exercise and Sports Science. With over $5.7 million funding from 2013, this research project brings together partners from key research and sport science institutions including the University of Sydney, University of Queensland Diamantina Institute and the Australian Institute of Sport. Total funding for the project is over A$14 million.

**The Centre for Research in Evidence-Based Practice**

The Centre for Research in Evidence-Based Practice (CREBP) commenced in July 2010, when Professor Glasziou moved from Oxford University to take up his NHMRC Australia Fellow award at Bond. The Centre has grown steadily since then, with three current major NHMRC awards, two further NHRMC personal awards and a number of smaller grants. CREBP’s aim is to undertake research about the processes and implementation of evidence-based medicine, in order to more intelligently and efficiently close the gaps between best available evidence and current clinical practice. The effective integration of research into practice will contribute to the health and healthcare of Australians.

**National Health and Medical Research Council – worth $1,270,185 (University of Queensland Lead)**

Dr Tammy Hoffman is working as a chief investigator on a research grant with the University of Queensland titled ‘Can a brief early intervention prevent depression and help people live with aphasia a year after stroke?’ The project investigates the loss of language after stroke (aphasia) which leads to problems with understanding, talking, reading and writing. Aphasia often leads to depression and poorer wellbeing for the person with aphasia and the caregiver.
Cochrane Acute Respiratory Infections Editorial Group - $358,594

Professor Chris Del Mar was awarded a $358,594 grant for his research on acute respiratory infections (ARIs). ARIs are very important worldwide, including Australia, causing a huge burden of disease and health expenditure. A number of reviews have focused on the redundancy of antibiotics for treatment. This has become pivotal for interventions that advocate for reducing prescriptions of antibiotics in primary care, including the National Prescribing Service.

Department of Health and Ageing Grant - $112,500

Associate Professor Tony Badrick was awarded a grant from the Department of Health and Ageing for his project titled ‘A new and novel quantitative method to enhance decision support based on pathology testing’. The aim of his research is to discover new relationships in the data network that go beyond linear results for a particular laboratory diagnosis. Such new relationships, combined with the already well-known relationships will be more powerful, and thus a powerful tool for enhanced decision making on the need for additional tests.

Bond University offers postgraduate research degrees at Masters and Doctoral levels in all faculties. These include the Master by Research (MRes), Master of Philosophy (MPhil), Doctor of Juridical Science (SJD), and Doctor of Philosophy (PhD).

The University fosters innovative and entrepreneurial research that contributes to new ideas in regional, national and global contexts. Our partnerships with private enterprise, industry organisations, government agencies and international universities gives candidates opportunities to learn and work with world-leading ideas and people in a range of knowledge economy disciplines.

Be a part of a high quality research environment and benefit from our strong focus on postgraduate research studies. The Bond experience brings broader benefits including:

• Access to external and University scholarships;
• Our team supervision approach which provides students with access to a broad range of skills and expertise;
• Access to a broad range of undergraduate and postgraduate subjects;
• Foundational research training including the theory of knowledge, research methodology, ethics and research communication;
• An innovative induction and professional development programs to enhance the education experiences of postgraduate research students; and
• Comprehensive research support including publications, grants and ethics.

Student testimonial

“As an international post graduate research student, Bond University provides me with excellent research and networking opportunities. My research supervisors are extremely knowledgeable and challenge me to achieve my best. In addition, the research facilities are of very high standards allowing me to investigate to depths that others may not be able to obtain. I also have many opportunities to travel for scientific conferences in order to present my research and meet experts in the field.

I feel welcomed and supported by the faculty members and fellow students and know that the research skills and expertise I will obtain through my studies here will aid me in all of my future endeavours both within Australia and overseas.”

Amanda Forbes
PhD student researching new treatments for prostate cancer
CQUUniversity Australia

Number of students
19,100

Number of international students
4500

Number of alumni
74,000

Number of international alumni
36,000

Campuses
Adelaide, Brisbane, Bundaberg, Gladstone, Mackay, Melbourne, Noosa, Rockhampton, Sydney

Student enquiries
+61 3 8676 7028
international-enquiries@cqu.edu.au
www.cqu.edu.au
www.cqu.edu.au/research
www.cqu.edu.au/international

CRICOS codes
00219C

CQUUniversity Australia has a commitment to excellence in research and innovation with a particular emphasis on issues that affect the surrounding region. CQUUniversity Australia’s researchers have built a world wide reputation and strong networks which offer students access to engaging, cutting-edge research through higher degree research programs.

The university achieves relevance in its research goals through linkages with industry, business, government and the community and through collaboration with national and international researchers and research networks.

Ranking
CQUUniversity is investing heavily in research and results from the Australian Government’s Excellence in Research for Australia. In 2012, the university ranked ‘at world standard’ for nursing research and ‘well above world standard’ for applied mathematics, agriculture and land management and research into medical and health science.

Excellence in Research

The university’s research programs are delivered through world-class research institutes including:

• The Appleton Institute – conducts research in sleep and circadian physiology, human factors and anthropology. The institute is internationally renowned for its world-class research outputs, multi-disciplinary collaborative research culture, excellent infrastructure, engagement with government, industry and the community. The university is also renowned for its capacity to prepare higher degree research students for careers in the private and public sectors.

• The Collaborative Research Network – works in partnership with Curtin University, Queensland University of Technology and The University of Queensland to achieve stronger performance outcomes in health-related research and building research capacity.

• The Education Research Flagship – The Learning and Teaching Education Research Centre is developing a leadership position in applied research into learning and teaching issues emerging from and impacting on CQUUniversity’s reputation for responsive and responsible engagement with students, staff and the diverse communities it serves.

• The Institute for Health and Social Science Research – provides multidisciplinary research that addresses community needs with focus on informing, monitoring and evaluating programs, interventions and behavioural changes that promote healthy, safe and viable communities.

• The Institute for Resource Industries and Sustainability – develops multidisciplinary capabilities and expertise specifically structured to meet the needs of the Australian business sector.
CQUniversity is committed to promoting engaged, cutting-edge research undertaken by its world-class researchers and research candidates. In 2013, the university’s projects included research into:

- the effects of marine debris on Australian sea birds by the Centre for Environmental Management
- crop yield estimation in mango using image processing by the Centre for Plant and Water Science
- analytic tools for human factors evaluation of new train control technologies by the Centre for Railway Engineering
- identifying the characteristics required by clinical leaders in mental health nursing and how they are developed by Institute for Health and Social Science Research
- the responses of grazed woodlands of central Queensland to sustained disturbance by the Institute for Resource Industries and Sustainability
- mechanisms linking sedentary behaviour to cardiometabolic and cancer risks by the School of Medical and Applied Sciences
- behavioural development in a unique Australian mammal, the dingo (Canis Dingo) by The Appleton Institute
- novel hybrid methods for solar power prediction by the School of Engineering and Technology.

Student testimonials

Dr Theerarat Samrejvanich completed her Professional Doctorate in 2010. Her thesis was entitled A Study of Thai Public and Private Secondary Schools Employing Nine Categories of Instructional Strategies (Public Schools).

Dr Samrejvanich was elected to the Thai Government as the Pheu Thai member for Lat Krabang district, Bangkok. The Pheu Thai Party formed government under the leadership of Thailand’s first female Prime Minister, Yingluck Shinawatra.

Dr Theerarat Samrejvanich, Thailand
Doctor of Professional Studies

Dr Panutporn Ruangchoengchum graduated in the Doctor of Professional Studies from CQUniversity Sydney in 2013 and returned to Thailand as a researcher and lecturer at the College of Graduate Study in Management (MBA), Khon Keen University.

In the future he would like to expand his knowledge across a number of business studies, especially the knowledge of transdisciplinary and applied research.

Dr Panutporn Ruangchoengchum, Thailand
Doctor of Professional Studies
Griffith University

**Number of students**
41,000

**Number of international students**
7000

**Campuses**
Brisbane (Nathan, Mt Gravatt, Logan, South Bank) and Gold Coast

**Student enquiries**
- +61 7 3735 6425
- international@griffith.edu.au
- www.griffith.edu.au
- www.griffith.edu.au/research
- www.griffith.edu.au/future-students/
- international-students

**CRICOS code**
00233E

Griffith University is one of Australia’s most dynamic and comprehensive research universities, with research excellence across a number of areas of national and international importance. From the world’s first malaria vaccine, now at human trial stage, to the world’s first photo of the shadow of a single atom, the university’s researchers are at the forefront of international discovery.

Working in world-class research centres, institutes and schools, Griffith researchers make highly significant contributions to real world 21st century challenges and priority issues. Internationally recognised supervisors have access to some of Australia’s most technically advanced research facilities. With a rich blend of innovation and traditional disciplines, Higher Degree Research students are supervised by academic professionals who are active researchers in their field.

The university exhibits national and world leading excellence in areas of strategic focus that include water science, criminology, health and chronic diseases, drug discovery, quantum physics, climate change adaptation, music, sustainable tourism and political science.

**Ranking**

As a world-class university that supports innovation and develops new and improved research facilities, we’re attracting some of the brightest minds and creative thinkers. Griffith is listed in the top 5% of universities worldwide on the academic ranking of World Universities, the QS World Universities Rankings and the Leiden Ranking.

Griffith received world standard ratings in 17 out of 22 disciplines (two-digit fields of research) in the Excellence in Research for Australia 2012 National Report. Griffith’s areas of research excellence include health, science, environment, information technology, business, social sciences, humanities and the creative and performing arts.

**Excellence in Research**

Researchers at Griffith University are provided with a supportive research community, vibrant research culture and state-of-the-art facilities to accommodate individual research needs. As a research intensive university, Griffith has a comprehensive portfolio of 38 research centres across five campuses and multiple disciplines from arts, education and law, business, health and sciences.

The university also has a core foundation of academic groups, schools and departments, the Office for Research, Graduate Research School and Griffith Enterprise and Indigenous Research Network to foster a comprehensive array of research activities. Many of the research areas are now world leading and the university has set a strong foundation to continually grow and build on its research strengths.
To help find solutions to 21st century challenges, Griffith University has focused on building research strengths in 12 key areas, which are supported by strategic investment. They include:

- Water science
- Drug discovery and infectious disease
- Asian politics, security and development
- Climate change
- Criminology and crime prevention
- Music, the Arts and the Asia Pacific
- Sustainable tourism
- Health and chronic diseases
- Education
- Environmental sciences
- Physical sciences
- Nursing

Griffith University also runs the Australian Institute for Suicide Research and Prevention, which is at the forefront of national and international suicide research and is a World Health Organisation Collaboration Centre for Research and Training in Suicide Prevention.

As a member of Innovative Research Universities Australia, Griffith University is continually investing in its facilities. In 2013 the university built the A$21 million Sir Samuel Griffith Building, Australia’s first zero-emission, self-powered teaching and research facility, the A$150 million Griffith Health Centre and the A$1.76 billion state government funded Gold Coast University Hospital.

### Student testimonials

“I believe the quality of the education I have received at Griffith University has given me an advantage over graduates from other institutions. I would recommend Griffith to any international students considering studying in Australia because it is a fantastic experience!”

**Olan Scott, Canada**

Master of Business (Sports Management)

“The program provided valuable insight into relevant business operations. I particularly enjoyed and benefited from the program’s approach towards sustainability and the emphasis on international course content.”

**Christine Anawati, Canada**

Master of Business Administration (MBA)
James Cook University (JCU)

Number of students
20,000

Number of international students
6000

Campuses
Cairns, Townsville, Brisbane, Singapore

Student enquiries
+61 7 4781 5601
international@jcu.edu.au
www.jcu.edu.au
www.jcu.edu.au/research
www.jcu.edu.au/international

CRICOS code
00117J

Excellence in research
The unique tropical location of JCU allows nationally significant and internationally recognised research to be conducted by both staff and students.

Areas of strength:
- Marine Science
- Earth Science
- Climate Change
- Tropical Biology and Conservation
- Biotechnology and Molecular Sciences
- People, Identity, Place - intellectual, social, economic and cultural dynamics.

JCU’s extensive network of research stations and facilities includes two UNESCO World Heritage sites, the Great Barrier Reef and the Wet Tropics rainforests of Northern Queensland.

JCU research facilities:
- The Australian Research Council’s Centre of Excellence for Coral Reef Studies cements Australia’s leading contribution to coral reef sciences
- The Daintree Rainforest Observatory has unique research opportunities unmatched anywhere else in the southern hemisphere
- Orpheus Island Research Station is a marine biology research and education facility that promotes excellence in education and research
- The Cairns Institute adds a vital human, social and cultural dimension to other internationally renowned JCU research centres whose work impacts on the lives of communities in the region.

JCU’s focus is on conducting teaching and research on areas of importance to the tropics, and producing graduates who have the expertise to make a difference in their profession and their communities.
Student testimonials

“I chose to undertake my postgraduate studies at JCU because of the university’s focus on solving current problems for countries in the tropics. The MDP degree has given me the opportunity to test my new skills through fieldwork in a unique location. JCU staff have always been very accessible, which I think is very important as an international student.”

Johanna Ochoa, Ecuador
Masters in Development Practice (MDP)

“I chose to study at JCU because of the high quality research facilities and the world-class researchers available in the area I wanted to specialise in. The environment of North Queensland also proved to be a considerable attraction due to the unique fauna diversity and environmental commitment. JCU allows you to interact and learn up to date topics about marine and tropical biology and conservation.”

Natalie Wildermann, Germany
Doctor of Philosophy (Environmental Science)
Queensland University of Technology (QUT)

Number of students
44,000

Number of international students
6800

Campuses
Brisbane (Gardens Point), Kelvin Grove

Student enquiries
+61 3 9627 4853
www.qut.edu.au/international/enquire
www.qut.edu.au
www.qut.edu.au/research
www.qut.edu.au/international

CRICOS code
00213J

Queensland University of Technology (QUT) is a highly successful Australian university with a global profile, located in the city of Brisbane. Reflecting this global outlook, QUT has 44,000 students, including 6800 international students from more than 100 countries, a testament to our ability to produce job-ready graduates.

The A$230 million Science and Engineering Centre is Australia’s fastest-growing research university and this underlines QUT’s emphasis on innovative courses and practical experience, and enhances their reputation for real world courses with practical experience that prepare you for your career.

Ranking
In 2012, the Australian Government’s Excellence in Research for Australia research quality assessment ranked over 85% of QUT’s research as world standard and above at the broad discipline level. QUT climbed 14 places to be ranked Australia’s top university under 50 years old in the Times Higher Education Top 100 Under 50 rankings. Now ranked 26, the latest result identifies QUT as a rising star within the tertiary education and research sector.

QUT was ranked in the world’s top 100 universities for employer reputation (QS World Universities 2011), holds the top rating of five stars in job outcomes (Good Universities Guide, 2013) and has been awarded five stars in the QS Star Rated for Excellence (2013)

QUT courses are in high demand and its graduate employment rate is well above the national average for Australian universities. QUT’s Business School is the first business school in Australia to achieve triple crown accreditation; all three leading international accreditation symbols of excellence including the Association to Advance Collegiate Schools of Business International, the accreditation body of the European Foundation for Management Development and the Association of MBAs.

Excellence in Research

QUT is the fastest-growing research university in Australia, committing over half a billion dollars to research, teaching and learning infrastructure in the last six years. Our A$230 million Science and Engineering Centre is our hub for exploration in science, technology, engineering and mathematics (STEM), bringing together more than 300 scholars across numerous disciplines in a dynamic environment at the Gardens Point campus.

QUT’s research institutes and centres seek solutions to research questions by bringing together experts from across the university, breaking the bounds of traditional discipline-based teams. QUT research institutes and centres include:

- The Institute of Health and Biomedical Innovation – provides multidisciplinary research devoted to improving the health of individuals and communities through research innovation. The institute delivers world leading expertise in areas such as prostate cancer, burns and wound management, orthopaedics and trauma, vision and medical devices.

- The Institute for Future Environments – works across traditional disciplinary and social boundaries to investigate how our natural, built and virtual environments interact, change and converge, to find ways to make them more sustainable, secure and resilient. The institute conducts high quality research in a number of areas including sustainable tropical and subtropical production; future energy systems and clean technologies; intelligent systems; and adaptive communities.
• Australian Centre for Philanthropy and Non-profit Studies
• National Centre for Econometric Research
• ARC Centre of Excellence in Creative Industries and Innovation
• Microsoft eResearch Centre
• Centre for Accident Research and Road Safety - Queensland (CARRS-Q)
• Australian Centre for Entrepreneurship Research
• Centre for Tropical Crops and Biocommodities
• Centre for Subtropical Design
• International Laboratory for Air Quality and Health
• Children and Youth Research Centre

Research is by its very nature global and today’s challenges require input from multi-disciplinary teams within Australia and beyond. We have numerous partnerships both in Australia and internationally:

• QUT is a partner in the Australian Research Centre for Aerospace Automation (ARCAA) at Brisbane Airport, housing more than 35 aviation research scientists and support staff who are developing breakthrough technologies in collision avoidance, emergency landing and separation management.

• QUT’s Medical Engineering Research Facility (MERF) at Brisbane’s Prince Charles Hospital is used by researchers and surgeons to trial and hone critical surgical techniques.

• QUT is partnering with three of Australia’s largest research facilities to create the country’s largest biopharmaceutical research institute, the $354 million Translational Research Institute (TRI). It will allow biopharmaceuticals and treatments to be discovered, produced and clinically tested and manufactured in one location.

• Investment from the Queensland Government’s Smart Futures scheme supports collaborative work in biofuels, prostate cancer, infectious diseases and renewable energy.

Student testimonials

Chartered Accountant, Shaun Scott has more than 20 years’ experience in the oil, gas and energy sectors in Australia, Asia and the USA. In April 2010 Shaun was appointed Chief Executive Officer of Arrow Energy Ltd. Shaun has been with the company for six years during which time he has been instrumental in its transformation from a A$20 million company with ten staff into an A$3.5 billion empire with 600 staff in six countries. Arrow is now among the top sixty ASX-listed companies.

Shaun Scott
QUT Business School graduates

Created by QUT graduates Shaniel Deo, Phil Larsen and Luke Muscat of Halfbrick, video game Fruit Ninja has been downloaded over 500 million times worldwide, and is one of the most successful video games worldwide. Fruit Ninja was recognised by Apple as the second most popular paid application in the world and one of the top ten paid applications in over 80 countries.

Shainiel Deo, Phil Larsen and Luke Muscat
QUT graduates
Southern Cross University (SCU)

Number of students
14,476 nationally

Number of international students
379 at the Gold Coast campus and 2029 nationally

Campuses
Gold Coast, Lismore, Coffs Harbour, Sydney

Student enquiries
+61 2 6620 3837
dor@scu.edu.au
www.scu.edu.au/research
www.scu.edu.au/international

CRICOS code
01251G

Rankings
The Australian Research Council’s 2012 Excellence in Research for Australia Report evaluated Southern Cross University at:

Well above world standard
• Geochemistry
• Zoology
• Crop and pasture production
• Forestry sciences
• Earth sciences
• Agricultural and veterinary sciences

Above world standard
• Nursing
• Biological sciences

World standard
• Tourism
• Studies in creative arts and writing

Excellence in Research
Southern Cross University (SCU) is a research intensive regional university that undertakes research of national and international significance. The University draws upon local resources and opportunities, striving to make a significant contribution to its specific region and the international community. In the Excellence in Research for Australia (ERA) 2012 National Report, SCU was given the classification of "well above world standard" in six key areas.

The University offers a wide range of postgraduate research degrees (also called higher degrees by research) including Masters by Thesis and PhDs. Higher degrees by research at the University are available as time-based study that does not require a coursework component. Candidates select a research topic with relevance to personal or professional interests within the University’s research capabilities and are provided with supervision from at least two SCU research-active academics.

SCU provides dedicated support to candidates across the complete academic cycle of their candidature including recruitment, supervision selection and arrangements, candidate progress, and examination, to establish a quality experience. Administrative support for matters relating to grant applications, research agreements, and research ethics is also provided to postgraduate students and staff.

Special Research Centres
Southern Cross GeoScience
Research interests include acid sulphate soils, aqueous environmental chemistry, floodplain biogeochemistry and hydrology, fluvial geomorphology and riverine processes, redox geochemistry of iron, sulphur biomineralisation in soils and sediments and terrestrial carbon sequestration.

Southern Cross Plant Science
Research focuses on knowledge of how genetic and environmental factors contribute to end-use properties of crops and other added-value natural products. Specific interests include agronomy and plant physiology focused on soil nutrition, bioinformatics, crop, forest and native plant genomics, DNA banking, epigenetics, natural products, quantitative and diversity genetics.
Research Centres

Children and Young People
The Centre for Children and Young People engages in a range of interdisciplinary research, education, and advocacy activities that seek to improve policy and practice for children and young people.

Coastal Biogeochemistry
The Centre for Coastal Biogeochemistry Research contributes to the understanding of global biogeochemical cycles and improved management of coastal systems impacted by global change. Research areas include cycling in coastal systems, stable isotopes, permeable sands and submarine groundwater discharge, alternative wastewater treatment systems and ocean acidification.

Gambling Education and Research
The activities of the Centre for Gambling Education and Research aim to inform and foster responsible industry practices, responsive community services and considered policy-making, through research on responsible gambling, corporate social responsibility, as well as training, education and industry codes of practice.

Marine Ecology
The Marine Ecology Research Centre incorporates the Whale Research Centre, the Coral Reef Research Centre and the National Marine Science Centre to focus on research areas including coral reef ecology, whale and dolphin ecology, marine chemistry and pollution, fisheries and aquaculture and marine biodiversity.

Tourism, Leisure and Work
The Research Centre for Tourism, Leisure and Work incorporates applied research in the areas of tourism and leisure, sport and human performance, events management, planning and policy, sustainable, connected communities and regions, organisational behaviour, human resource management, employment relations and capability in industry sectors and regions.

Forestry
The Forest Research Centre investigates the ecology of native forests both in Australia and overseas, studying how native forests and plantations can produce wood products, environmental services and carbon sustainably, with specialities in tropical forestry and agroforestry, computer modelling, forest birds, marsupials and amphibians, new products from trees, community engagement and forest genetics.

Research also occurs within the following Schools:
- School of Health and Human Sciences
- School of Education
- Southern Cross Business School
- School of Environment, Science and Engineering
- School of Arts and Social Sciences
- School of Law and Justice
- School of Tourism and Hospitality Management
- GNIBI College of Indigenous Australian Peoples

Student testimonial
“I joined Southern Cross University in 2005 as a Master of Environmental Science student then applied for admission to PhD candidature in 2008. This decision was highly motivated by the professional and friendly environment that I found at SCU. At the School of Environment, Science and Engineering, I studied with world-class experts and had access to advanced technologies. A small teacher to student ratio ensured teaching staff could be easily approached by students, resulting in a more personalised study experience. The School has a strong reputation for its work in environmental sustainability and a high standard of research.”

Mateus Baronio, Brazil
Doctor of Philosophy (Environmental Science)
Director of Conservation – Sea Sanctuaries Trust
The University of Queensland (UQ)

**Number of students**
48,800

**Number of international students**
11,500

**Campuses**
St Lucia, Herston, Ipswich, Gatton

**Student enquiries**
+61 3 8676 7004 or 1800 671 980 (Australia free call)

www.uq.edu.au
www.uq.edu.au/grad-school
www.uq.edu.au/research
www.uq.edu.au/international
www.uq.edu.au/international-students/study-guide-app

**CRICOS code**
00025B

As a research student at UQ, you join a culture of research excellence. Your research degree provides choice and opportunity from UQ’s many advantages.

To help you succeed, we offer one of the largest academic library collections in Australia with over 2.5 million volumes and over 75,000 distinct journals, a dedicated space for research students and world-class learning environments. Our staff share a passion for excellence in education, which has led to them receiving more national teaching awards than any other Australian university. The research that is undertaken across our many state-of-the-art facilities is answering some of the toughest questions facing humanity. There is also the benefit of being connected to industry leaders through our global, national and local partnerships.

UQ is the largest university in Queensland with more than 48,800 students including over 11,500 international students from 142 nations. It has one of Australia’s largest PhD enrolments, with more than 4000 research students and recently celebrated its 10,000th PhD graduate.

With four major campuses located at St Lucia and Herston in Brisbane and Ipswich and Gatton in South-East Queensland, the University has invested substantially in construction and development and created great environments to study and research. UQ is committed to continuing to develop state-of-the-art learning spaces that are in step with industry demands and expectations.

**Ranking**

UQ is in the top 100 universities worldwide, measured through a number of major independent university rankings.

- 85th globally (2014 Academic Ranking of World Universities)
- 43rd globally (2013 QS World University Rankings)
- 63rd globally (2013-14 Times Higher Education World University Rankings)
- 67th globally (2013 Performance Ranking of Scientific Papers for World Universities)

The University’s global research positioning was highlighted by the election of five UQ scientists to the Australian Academy of Science (AAS) in 2013 – one quarter of the 20 new Fellows and the most from any institution in the country. The five new Fellows joined an existing group of 19 UQ scientists admitted to the AAS since 1988, bringing the total number of UQ academics who are members of one of Australia’s four prestigious learned academies to 130.

The Australian Government’s ERA 2012 National Report confirmed that research at UQ is above world standard in more specialised fields of research than any other Australian university.

- 100% of UQ research is at world standard or above
- 35 specialised fields of research at UQ received the highest possible rating of five
- UQ was the only Australian university to achieve the maximum rating of five in education, statistics, numerical and computation mathematics, environmental engineering, environmental biotechnology, industrial biotechnology, and specialist studies in education
The University of Queensland is one of Australia’s top three universities measured by the quality of its comprehensive range of specialised research fields. UQ is one of only three Australian members of the global Universitas 21, a founding member of the Group of Eight universities and a member of Universities Australia.

In 2013, UQ also topped the country for Australian Research Council early career researcher and overall funding.

**Excellence in Research**

The University’s research strengths reflect a broad scope of activity, with existing institutional strengths spanning the humanities, psychology, social sciences, medical and biomedical research, environmental research, marine studies, agricultural and food science, materials and nanotechnology, hypersonics, imaging, neuroscience, information science and quantum and photon science. More information on UQ’s top 30 research strengths can be found at www.uq.edu.au/research/research-at-uq/research-strengths.

UQ has nine research institutes, many with a multidisciplinary focus including the:

- Australian Institute for Bioengineering and Nanotechnology
- Global Change Institute
- Institute for Molecular Bioscience
- Institute for Social Science Research
- Mater Research Institute - UQ
- Queensland Alliance for Agriculture and Food Innovation
- Queensland Brain Institute
- Sustainable Minerals Institute
- University of Queensland Diamantina Institute

UQ has over 1500 active collaborations with industry and other partners and received A$381.8 million in research income in 2013. UQ attracts more than A$80 million in research funding from industry and ranks first among Australian universities for license income, value of equity holdings and number of active start-up companies. Through UniQuest, its main commercialisation company, it is one of the few universities in the world to consistently receive over a million dollars per year in commercialisation revenue.

Many research projects at UQ have delivered outstanding economic, social and environmental benefits including:

- Cervical cancer vaccine Gardasil®
- Triple P Parenting Program
- Change in pesticide regulation due to dioxin contamination research
- The development of titanium fabrication technology for aerospace materials
- Improved imaging for MRI systems
- GroundProbe Slope Stability Radar, used on mine sites.

UQ is also a partner in the Translational Research Institute (TRI) – an Australian-first that represents the future in biomedical research. TRI has the capacity to discover, produce, test and manufacture new treatments and vaccines in one location.

**Support for Research Students**

The UQ Graduate School offers significant support to research higher degree students through a broad range of scholarships and research travel awards, dedicated office spaces, skills training and professional development opportunities. Students studying their PhD at UQ benefit by participating in a careers program designed to accelerate PhD students’ career development and enhance their employability.

Each year UQ supports approximately 1200 students through almost 150 specialised Skills Training sessions, workshops and applied training activities, networking functions, professional development, and cross-disciplinary collaboration events.

UQ is also the home of the Three Minute Thesis (3MT®) competition, which celebrates the contribution of RHD students and encourages the development of strong communication and presentation skills. Since starting at UQ in 2008, the competition has grown exponentially and is now held in over 13 countries by more than 100 different institutions.
Student testimonials

“UQ is one of the top universities in the country and has extensive campuses, learning facilities, libraries, an international student office, student health centre, sport and recreation centre, as well as student support services for everything from finding accommodation and jobs, to providing academic, career and personal counselling. From my own experience, I believe it’s not just about studying at the best university, but a university that can support you to achieve your best.”

Banthida Komphasouk
Bachelor of Social Science major in Development and Health (Honours)
Community Health Coordinator, World Vision Laos

“Australia, especially Brisbane, is the next booming place in regards to the world biotechnology industry. My program, intended as an alternative to a research focused PhD, allowed me to pursue advanced training in science. I did adult stem cell biology research work while simultaneously developing multidisciplinary business skills within biotechnology and healthcare industries. I credit my time at UQ for helping me to develop communication ethics, career development, and original, practical solutions to real world problems.”

Usukhbayar Ariunbold
Master of Biotechnology
Director of the Technology Transfer office at Mongolia’s largest medical university—Health Sciences University of Mongolia (HSUM)
University of Southern Queensland (USQ)

Number of students
More than 27,000

Number of international students
5194

Campuses
Toowoomba, Springfield, Fraser Coast

Student enquiries
+61 7 4631 5543
international@usq.edu.au
www.usq.edu.au
www.usq.edu.au/research
www.usq.edu.au/international

CRICOS code
00244B

University of Southern Queensland (USQ) concentrates its research efforts in several core areas including agriculture and the environmental sciences, regional development and wellbeing, digital futures, computational mathematics and bio-medical sciences.

We value our long-term collaborations with rural and regional communities and key agricultural industry sectors including the cotton and sugar industries.

Our research partnerships have yielded significant gains in Australia and throughout the world. Today, USQ researchers lead programs in countries as diverse as Bangladesh, Vietnam and the United Kingdom.

Our multi-disciplinary team-based research culture enables USQ to bring products and services to market more quickly. We will continue to leverage our research strengths to generate global impact.

Responding to the ‘bigger picture’ is our priority.

Our researchers demonstrate this by:

- leading a global committee on behalf of the UN Commission for Agricultural Meteorology
- participating in the UN Program Reducing Emissions from Deforestation and Forest Degradation in Developing Countries (REDD Plus) in Nepal and the Philippines
- building social capital, learning cities and regions in the 50 member country PASCAL Observatory
- fostering collaborative strategic alliances in China between; Nanjing University, China Agricultural University and the Chinese Central University of Finance and Economics
- collaborating with the United Kingdom Meteorological Office and India Meteorological Department (IMD) to improve productivity for UK and Indian farmers
- helping the Vietnamese coffee industry manage climate risks and conducting space research with NASA.

Student testimonial

“USQ has many things that make it one of the best universities in the world such as flexible learning, interesting programs, and highly experienced staff with great teaching quality. I came to USQ to improve my knowledge and enhance my practical skills in order to support my career. Not only have I found what I was looking for within USQ but I have also built new relationships with new friends (staff and students) here at USQ.”

Jasim Al-Baghdadi
Doctor of Philosophy (Engineering and Surveying)
University of the Sunshine Coast (USC)

**Number of students**  
Almost 10,000

**Number of international students**  
More than 1,000

**Campuses**  
Sunshine Coast

**Enquiries**  
+61 7 5430 2843

international@usc.edu.au

www.usc.edu.au/International

www.facebook.com/USCInternational

www.youtube.com/unisunshinecoast

**CRICOS code**  
01595D

The University of the Sunshine Coast (USC) offers the best of both worlds – it’s the place where learning meets lifestyle. The university’s Sippy Downs campus is only 90 kilometres from Queensland’s capital city, Brisbane and a short drive from beautiful beaches and a lush hinterland. Students receive a high level of personal service and easy access to academic staff, creating an environment where students are valued as individuals and the exchange of ideas is encouraged.

USC’s blend of highly-qualified staff, modern programs, excellent support services and technologically advanced teaching resources is widely recognised. It is the only Queensland public university to consistently rate five stars for teaching quality*, and wins more than its share of national teaching awards.

USC has also earned multiple five-star ratings for its educational experience, including overall graduate satisfaction, graduate satisfaction with generic skills, gender balance, Indigenous participation and electronic support.* The 2013 International Student Barometer also ranked USC first in Australia for overall student satisfaction and safety.

**International accreditation**  
USC has established exchange, research and academic cooperation partnerships with institutions throughout Asia, Europe and the Americas.

**Research**  
USC research strengths include sustainability, genetics, ecology and physiology - in both plant and animal systems; forest science and industry; health and digital technology.

In the Excellence for Research in Australia (ERA) 2012 ratings, USC achieved at and above world standard recognition in the areas of Agriculture and Veterinary Sciences and Biological Sciences. Also, the University is experiencing a rapid growth in research productivity that is significantly enhancing research capacity in the aforesaid areas of designated research strength.

Students can study alongside internationally renowned experts like Professors Abigail Elizur, Peter Timms, Tim Smith, Helen Wallace and Mark Brown who are world leaders in aquaculture, microbiology, sustainability, agricultural ecology and forestry, or one of USC’s 30 recently appointed Research Fellows, selected for their national and international standings in fields of research aligned to USC’s existing and emerging research strengths.

**Master of Business Administration (MBA)**  
USC’s 12-course MBA program can be studied in one year over three sessions and includes niche courses in innovation, creativity and entrepreneurship. The program is designed to equip graduates with essential skills and competencies in management and business administration.

**Campuses and facilities**  
USC’s Sippy Downs campus provides students with an ideal study environment. Located on the edge of a national park, the campus is home to a variety of Australian flora and fauna. USC’s distinctive and environmentally friendly architecture has received national awards. The campus offers modern learning resources including an extensive library, and a student-to-computer ratio that is among the best in Australia. USC has an art gallery, bookshop, sporting facilities, eateries, a Uni Club with free facilities and plenty of other activities and events.

*Good Universities Guide 2014.
Security staff patrol the campus 24 hours a day, 7 days a week.

USC also offers opportunities to study in Gympie, Noosa, Caboolture and at South Bank in Brisbane.

**International student support**

USC provides academic study skills and learning assistance; English language support; health and wellbeing services; counselling; career guidance workshops and job search information; and pre-departure and on-arrival help.

**Accommodation**

Modern, privately-owned accommodation complexes with on-site managers and security patrols are located a few minutes' walk from USC and local retail facilities. The complexes offer affordable four-star, resort-style living with swimming pools, tennis, basketball, beach volleyball, barbeque and self-contained facilities. Students enjoy shared, apartment-style living with their own bedroom, study desk, internet connection, telephone and bathroom.

**English language studies**

USC offers high-quality, NEAS-accredited, Academic English language programs and IELTS test preparation, taught by qualified teachers.

**Pathway programs**

USC’s Tertiary Preparation Pathway helps students meet academic admission requirements. Study abroad and exchange programs are available.

**Student testimonials**

“I had great experiences with the lecturers who were very good at explaining and making sure everyone understands. It’s nice to have people around you, both international students who are in the same situation, and Australians who can help with any questions.”

**Ann-Lisa Nielsen, Denmark**

Study Abroad

“My favourite thing about USC, aside from the location, is the people. There is a perfect combination of international students, and Australians, that provide a nice, cultural experience in a beautiful region of the country. I was so impressed, that after completing my Master of International Business, I returned to USC to do my PhD in marketing.”

**David Fleischman, USA**

Master of International Business, PhD Marketing

International Education
Work experience opportunities in Queensland

The strong economy and number of service industries in Queensland offer opportunities for international students to work as well as study. Many international students and visitors are allowed to work in Queensland, although some visas have limited work rights. It is important that you are clear about the limitations of your visa before seeking work as people who breach these conditions may have their visa cancelled.

See www.immi.gov.au or call 13 18 81 for information on visa requirements from the Department of Immigration and Citizenship for detailed information about visa conditions and visit www.immi.gov.au/students/_pdf/permission-to-work-students.pdf to read about working and studying in Australia.

Want to know more?

The Queensland Government is committed to working in partnership with international education and training providers and institutions to build a sustainable and quality education and training industry today and for future students.

International Education and Training Unit (IETU) is a unique unit established by the Queensland Government in 2001 to develop the future partnerships for international students.

Now based in Trade & Investment Queensland (the government’s global business agency) IETU focuses on enhancing the experience international students have before, during and after their study in Queensland.

By working across government and in partnership with industry, IETU is well positioned to provide high level co-ordination and support.

Education and training remains at the forefront of Queensland’s international engagement. IETU will continue to seek and sustain international partnerships with overseas governments, industry, institutions and providers that focus on reciprocal academic and cultural exchange.

See www.studyqueensland.qld.edu.au for all the QUEENSLAND study information and help you need
See www.studyinaustralia.gov.au for additional information about studying and living in AUSTRALIA
Postgraduate courses offered by Queensland’s universities

For course information, please contact the universities below.

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<th>University</th>
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<td>University of the Sunshine Coast</td>
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Make the right decision
Queensland AUSTRALIA

4 million
people call
Queensland home

1/3
are migrants or
children of migrants

Queensland is a leader in research with an abundance of major research centres including:

- 9 Mining & Energy research centres
- 9 ICT & Multimedia research centres
- 40+ Health & Medical research centres
- 18 Environment & Nature research centres
- 20 Manufacturing & Design research centres

There are almost 300 registered institutions for international students in Queensland including:

- 100+ state, independent and catholic schools
- 10 universities
- 6 TAFEs
- 50+ English language schools
- 100+ private VET colleges

Providing you with a world class education and amazing experiences