UTS is a world class research intensive university with a rapidly growing reputation for its research quality and impact across a wide range of discipline fields. We are committed to practical innovation and to the development of impact-driven research that benefits industry and the broader community, helping shape the world we live in.

UTS is ranked in the top 500 research universities in the Academic Ranking of World Universities. A recent Australian government research evaluation also ranked over 80% of UTS research at world standard or above, while in 2012 UTS was ranked 29th in the world in the new QS Top 50 Under 50 rankings.

An additional $70 million towards UTS research activities over six years ensures we are building capacity across the university’s seven faculties and 29 research strengths, will ensure this growth continues. The university’s A$1 billion campus redevelopment plan has already started to deliver a world-class campus that includes a new library and learning commons, dedicated study spaces for research students, new international student accommodation as well as new Engineering, Business and Science buildings which will contain state of the art equipment and facilities.

**RESEARCH AT UTS IS CONDUCTED WITHIN SIX MAJOR THEME AREAS:**

- Health Futures
- Business Innovation
- Sustainability and the Built Environment
- Futures Services and Industry
- Communication and Intelligent Systems
- Creative Industries and Civil Societies.

These themes align with the emerging issues of global importance that will inspire and challenge the international research community.

Research students choose UTS because of the opportunities on offer to engage with world class research teams and facilities. Our staff comprise both thought leaders and practical innovators with wide-ranging experience in academia and industry to nurture the next generation of research and industry leaders.

UTS offers a large program of scholarships to support research students with their education and living costs. A wide range of support services and activities ensure that research students remain connected and engaged within the UTS community. These include student events, workshops and presentations offered through the University Graduate Research School and the UTS Library.

The UTS Framework for Doctoral Education represents a new, innovative approach to doctoral education and is designed to meet our students’ professional and research development needs by combining an integrated, whole of university approach. This ensures that students are industry or academia ready through a tailored approach to doctoral education that helps students manage their candidature. Underpinning the Framework is the introduction and formalisation of advanced study modules to further develop disciplinary knowledge alongside research skills and practices.

Central to UTS research success is an integrated and vibrant research culture, focused on leading approaches to researcher development. We aim to equip graduates with new and innovative research concepts and professional training and develop the next generation of graduates and researchers who can lead their professions and industries.

There are many reasons to consider a research degree at UTS, and we look forward to welcoming you into the UTS research community.
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RESEARCH AT UTS

At UTS, we aim to develop pioneering research solutions with real benefits for business, government, the environment and communities at home and overseas. We call this approach to research ‘practical innovation’.

Research at UTS is divided into six main themes, underpinned by 29 major research centres that we call Research Strengths. They are:

HEALTH FUTURES
Research in this theme has a focus in developing biotechnology and medical devices, evaluating health systems and services to improve practice, exploring legal and regulatory environments and generating meaningful economic analyses to take health in to the future.

Centres of Research Strength:
> ithree Institute (infection, immunity, innovation)
> Centre for Health Economics Research and Evaluation
> Health Services and Practice
> Centre for Health Technologies

SUSTAINABILITY AND THE BUILT ENVIRONMENT
UTS researchers are working in areas from climate, water, energy, health to the built environment, enabling us to provide holistic research approaches to environmental issues and policies.

Centres of Research Strength:
> Centre for Built Infrastructure Research
> Centre for Environmental Sustainability
> Plant Functional Biology and Climate Change Cluster
> Institute for Sustainable Futures
> Centre for Technology in Water and Wastewater

CREATIVE INDUSTRIES AND CIVIL SOCIETIES
UTS researchers from the arts and social sciences, design and the sciences give a unique perspective on cultures, creative practice, knowledge and learning and cultural change.

Centres of Research Strength:
> China Research Centre
> Centre for Contemporary Design Practices
> Cosmopolitan Civil Societies
> Centre for Creative Practice and Cultural Economy
> Centre for Forensic Science
> Law Research Centre
> Centre for Research in Learning and Change
> Strengthening Indigenous Communities
> Transforming Cultures Research Centre

BUSINESS INNOVATION
UTS researchers are world-leading in fundamental discipline areas such as finance, economics, accounting, marketing and management with innovative cross-disciplinary approaches to the role of business and public policy in addressing key economic, social and environmental problems.

Centres of Research Strength:
> Centre for Corporate Governance
> Centre for Management and Organisation Studies
> Quantitative Finance Research Centre
> Centre for the Study of Choice

UTS RANKINGS AND MEMBERSHIPS

<table>
<thead>
<tr>
<th>Ranking</th>
<th>Top 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shanghai Jiao Tong Academic Ranking of World Universities</td>
<td>100</td>
</tr>
<tr>
<td>QS World University Ranking</td>
<td>100</td>
</tr>
<tr>
<td>QS GLOBAL Top 50 under 50</td>
<td>29</td>
</tr>
<tr>
<td>The Times Higher Education (THE) 100 under 50 Universities</td>
<td>12 (Australia) 88 (globally)</td>
</tr>
</tbody>
</table>

Founding Member, Australian Technology Network of Universities

COMMUNICATION AND INTELLIGENT SYSTEMS
Researchers in this theme examine new ways to draw insight from oceans of data, understanding and leveraging the communication potential of new media and technologies, design real-time intelligent systems and investigate how regulation can promote the free and ethical flow of information.

Centres of Research Strength:
> Advanced Analytics Institute
> Centre for Human Centred Technology Design
> Centre for Quantum Computation and Intelligent Systems
> Centre for Real-time Information Networks

FUTURE SERVICES AND INDUSTRIES
UTS researchers in areas such as robotics, IT and nano-materials are defining and supporting the next generation of Australian industry and services.

Centres of Research Strength:
> Centre for Innovation in IT Services and Applications
> Centre for Intelligent Mechatronic Systems
> Centre for Materials and Technology for Energy Efficiency
> Centre for Nanoscale Technology
2012 SNAPSHOT OF UTS

> 25,053 students enrolled at UTS – onshore and outside Australia.
> 7128 international students
> 18,228 Undergraduate students
> 6825 Postgraduate coursework students
> 2,987 staff
> 1,267 research students

UTS STUDENT DIVERSITY

> 37 per cent of students are from non-English speaking background
> 49 per cent of students were born overseas
> 145 languages other than English are spoken by the student body
> Largest language groups: English, Cantonese, Vietnamese, Arabic, Mandarin
> UTS City Campus
> 5 minutes’ walk to Central Station, Sydney’s major transport hub
> 10 minutes by train to the Sydney Opera House and the Sydney Harbour Bridge
> 10 minutes’ walk to cinemas, theatres, cafés, markets and live music venues
> 30 minutes by bus to Bondi Beach
> 90 minutes by train to the Blue Mountains
GETTING STARTED

WHICH DEGREE IS RIGHT FOR YOU?

DOCTOR OF PHILOSOPHY

Course duration: 4 years
A Doctor of Philosophy (PhD) at UTS offers you advanced research training aimed specifically at a career in research. PhD programs can be undertaken through any UTS faculty, as well as in UTS Pharmacy and the Institute for Sustainable Futures.

PROFESSIONAL DOCTORATE

Course duration: Maximum 4 years
Professional doctorate programs are designed for professionals who wish to undertake a research project related to their professional practice. These degrees comprise independent research combined with a structured program of coursework.

UTS currently offers professional doctorates in the following study areas:
> Communication
> Design, Architecture and Building
> Education
> Law

ATN INDUSTRY DOCTORAL TRAINING CENTRE

Course duration: 3 years
Students in the field of mathematics and statistics who have an interest in having or continuing a career in industry can apply to undertake a doctoral training program through the Australian Technology Network’s Industry Doctoral Training Centre (ATN IDTC) in Mathematics and Statistics. The ATN IDTC connects PhD students with industry in order to address the current critical shortage of industry-focused and highly trained researchers in mathematical sciences and related disciplines. It also gives industry employees the chance to update their qualifications and experience with a PhD. It is the first such doctoral training centre in Australia.


MASTERS BY RESEARCH

Course duration: 2 years
A UTS Masters by Research offers research training for those wishing to do research that applies advanced knowledge in a particular context. This degree is also a pathway for further research study.

Our online Find a Supervisor tool can help by matching your research interests to those of our leading academics who are also experienced supervisors.

http://datasearch2.uts.edu.au/research/find-a-supervisor

Once you’ve chosen your degree, you’ll need to start your search for a supervisor and begin developing your research proposal. For more information, please see page 34 of this guide.
LIVING IN SYDNEY

CAMPUS

UTS is located in the heart of Sydney, one of the world’s great cities. The university’s city campus sits at the southern end of Sydney’s central business district (CBD), just five minutes from Central Station and close to iconic locations like Circular Quay, The Rocks and the Sydney Opera House. A second campus at Kuring-gai on Sydney’s north shore is accessible via free shuttle bus from the city.

Students come to UTS both for its reputation as an applied research university, and for its stunning location in the heart of one of the world’s great cities. Known as the City of Villages, Sydney brings together nearly 5 million people in an eclectic mix of cultures, races, religions and professions. It’s known for being a tolerant city, welcoming people from all walks of life.

Sydney combines the downtown feel of a busy metropolis with the beautiful, laidback lifestyle of the stunning suburbs huddled around its harbour and beaches. You can enjoy an exceptional standard of living here, mixing a range of interests and pleasures as the backdrop to your academic career.

INDUSTRY-CONNECTED RESEARCH

The location of the university’s main campus in the CBD is integral to the development of strong relationships with industry. We are recognised as a university that’s good to do business with and our academics and research students to conduct a range of collaborative industry research projects and partnerships, from sponsored PhD placements to contract research and government initiatives, with businesses of every size.

As a UTS research student, you too can see your research transformed by the development of industry links. UTS’s focus on research with impact means that the value of your work lies in how it can make a difference to government, business, the environment and the community. Real research is about changing lives and leaving a mark on the world.

Find out about the cost of living in Sydney, and affordable housing options, on page 12 of this guide.
SCHOLARSHIPS FOR DOMESTIC STUDENTS

UTS offers a variety of scholarships to support you in your research studies

CHANCELLOR’S RESEARCH SCHOLARSHIPS

The Chancellor’s Research Scholarships are offered every year to highly-ranked, newly-commencing doctoral students who demonstrate outstanding academic achievement and potential to succeed in a research career. These prestigious scholarships are valued at up to $35,000 per annum for a period of three years. Recipients of an Australian Postgraduate Award (detailed below) will be considered for the Chancellor’s Research Scholarships.

UTS DOCTORAL SCHOLARSHIPS

The UTS Doctoral Scholarships are provided by UTS to students of exceptional research potential who are undertaking a UTS research degree. The value is approximately $24,000 per annum for a period of three years.

RL WERNER SCHOLARSHIP

Named after the first president of the NSW Institute of Technology, now UTS, these scholarships are valued at approximately $24,000 per annum for three years for students undertaking doctoral studies.

SIR GERARD BRENNAN SCHOLARSHIP

This scholarship provides an Indigenous Australian with a stipend and research support to undertake full-time PhD studies at UTS. It was established in 2004 to honour the work of the former Chancellor, Sir Gerard Brennan AC KBE, who was a former Chief Justice of the High Court of Australia and demonstrated his commitment to Aboriginal and Torres Strait Islander people throughout his career. The scholarship is valued up to $27,000 per annum for a period of three years.

AUSTRALIAN RESEARCH COUNCIL (ARC) SCHOLARSHIPS

ARC Scholarships are funded by the Australian Research Council’s Discovery or Linkage Project grants through University academics and provide an opportunity for outstanding postgraduate research students to undertake industry-based research.

FACULTY SCHOLARSHIPS

Some faculties may also have specific scholarships available for research students. For more information, contact your faculty directly.

www.gradschool.uts.edu.au/current-students/scholarships-funding/facweb.html

DOMESTIC students

UTS offers a variety of scholarships to support you in your research studies

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FACULTY SCHOLARSHIPS

Some faculties may also have specific scholarships available for research students. For more information, contact your faculty directly.

www.gradschool.uts.edu.au/current-students/scholarships-funding/facweb.html
FIND OUT MORE

UTS is continuously making new scholarships available.

All scholarship applications are competitive. They are open to students who meet the specific scholarship selection criteria and who have received or are eligible to receive admission to a course at UTS.

Some faculties may also have specific scholarships available for research students.

For more information visit the faculty scholarships website: www.gradschool.uts.edu.au/current-students/scholarships-funding/facweb.html

For more information, eligibility criteria and scholarship conditions, please visit our scholarships web page: www.gradschool.uts.edu.au/current-students/scholarships-funding/uts-research-scholarships.html or contact the Graduate Research School at ugs@uts.edu.au
SCHOLARSHIPS FOR INTERNATIONAL STUDENTS

UTS offers a variety of scholarships to support you in your research studies

AUSTRALIAN GOVERNMENT

AUSTRALIAN DEVELOPMENT SCHOLARSHIPS

Australian Development Scholarships, funded by the Australian Agency for International Development, are available to international studying across all disciplines. These scholarships provide opportunities for students from developing countries to study at participating Australian universities and cover both living allowance and tuition fees.

ENDEAVOUR POSTGRADUATE AWARDS

Endeavour Postgraduate Awards are funded by the Australian Government’s Department of Education, Employment and Workplace Relations and offer internationally competitive, merit-based scholarship funding for high achieving international students from the Asia Pacific, the Middle East, Europe and the Americas. The awards cover both living allowance and tuition fees. Students from all disciplines are welcome to apply.

GOVERNMENT AND UTS

INTERNATIONAL POSTGRADUATE RESEARCH SCHOLARSHIPS (IPRS)

Funded by the Australian Government, Department of Innovation, Industry, Science, Research and Tertiary Education – the IPRS offers tuition fee funding for overseas students who are eligible to undertake a higher degree by research at UTS.

INTERNATIONAL RESEARCH SCHOLARSHIPS

The UTS International Research Scholarship is provided by the UTS as part of its long term commitment to internationalisation with a particular view to enhancing its international links and profile in research. It is aimed at attracting high quality international students to work in areas of research strength. The scholarship covers tuition fees.

AUSTRALIAN POSTGRADUATE AWARD

The Australian Postgraduate Awards Scheme is funded by the Department of Innovation, Industry, Science, Research and Tertiary Education. APAs are automatically awarded to international applicants who have been successful in receiving an IPRS scholarship. The scholarships are valued at approximately $24,000 per annum for three years and cover living allowance.

UTS PRESIDENT’S SCHOLARSHIP

The UTS President’s scholarship is provided by the University to international students who demonstrate exceptional research potential. The scholarship covers living allowance and is valued at approximately $24,000 per annum. Applicants for the International Postgraduate Research Scholarship (IPRS) will automatically also be considered for the UTS President’s Scholarship.

UTS-CSC PHD SCHOLARSHIP – CHINA

UTS/CSC PhD Scholarships are a product of the collaborative relationship between the China Scholarship Council (CSC) and UTS and are open to students from the People’s Republic of China. UTS offers up to 20 tuition fee scholarships (CSC IRS) under this scheme per year. The award is open to Chinese citizens or permanent residents of China.

DIKTI – INDONESIA

DIKTI-UTS Scholarships are the outcome of collaboration between Indonesia’s Ministry of National Education Direktorat Jenderal Pendidikan Tinggi (DIKTI) and UTS. The award is open to Indonesian citizens who satisfy the DIKTI eligibility criteria.

VIED – VIETNAM

UTS-VIED PhD Scholarships are the result of a collaboration between Vietnam International Education Development (VIED) under the Ministry of Education and Training (MoET) and UTS.

DR A.P.J ABDUL KALAM DOCTORAL SCHOLARSHIP – INDIA

The Dr Kalam Doctoral scholarship is to enable Indian international students of exceptional research potential to undertake a higher degree by research at UTS. The scholarship covers both tuition fees and a living allowance of approximately $24,000 per annum.
UTS is continuously supporting home government scholarship schemes and making new scholarships available.

All scholarship applications are competitive. They are open to international students who meet the specific scholarship selection criteria and who have received or are eligible to receive admission to a course at UTS.

Some faculties may also have specific scholarships available for research students.

For more information visit the faculty scholarships website: www.gradschool.uts.edu.au/current-students/scholarships-funding/facweb.html

For more information, eligibility criteria and scholarship conditions, please visit our scholarships web page: http://datasearch.uts.edu.au/study/scholarships/index.cfm or contact the UTS International Sponsored Team at sponsored.student@uts.edu.au
**SYDNEY LIVING COSTS - APPROXIMATE GUIDE ONLY**

<table>
<thead>
<tr>
<th></th>
<th>Independent Accommodation</th>
<th>UTS Accommodation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rent per person in shared accommodation within a short commute to UTS</td>
<td>A$190 – A$330</td>
<td>A$158 – $290</td>
</tr>
<tr>
<td></td>
<td>A$9880 – A$17,160</td>
<td>A$8216 – A$15,080</td>
</tr>
<tr>
<td>Groceries (eg. food, drinks, toiletries)</td>
<td>A$100</td>
<td>A$100</td>
</tr>
<tr>
<td></td>
<td>A$5200</td>
<td>A$5200</td>
</tr>
<tr>
<td>Internet/Phone (mobile)</td>
<td>A$14</td>
<td>Limited free access</td>
</tr>
<tr>
<td></td>
<td>A$730</td>
<td>Limited free access</td>
</tr>
<tr>
<td>Gas/Electricity</td>
<td>A$14</td>
<td>Inclusive</td>
</tr>
<tr>
<td></td>
<td>A$730</td>
<td>Inclusive</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>A$16</td>
<td>A$16</td>
</tr>
<tr>
<td></td>
<td>A$850</td>
<td>A$850</td>
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<tr>
<td>Transport costs</td>
<td>A$20</td>
<td>A$10</td>
</tr>
<tr>
<td></td>
<td>A$1040</td>
<td>A$520</td>
</tr>
<tr>
<td>Total estimated ongoing costs</td>
<td>A$354 - A$494</td>
<td>A$284 - A$416</td>
</tr>
<tr>
<td></td>
<td>A$18,430 - A$25,710</td>
<td>A$14,786 - A$21,650</td>
</tr>
</tbody>
</table>

Note: Prices vary depending on the condition of the property, the number of people you share with and the proximity of the accommodation to the centre of Sydney and other amenities.
FEEL AT HOME
Living in Sydney

Like most big cities, the cost of living in Sydney can be high, so it’s worth taking the time to get to know the city and explore the suburbs around you before you make a decision about where to live.

Consider what’s important to you – do you want to be near the campus, or are you happy to commute? Do you want to live alone, or share accommodation with housemates? Do you want to live near certain attractions or in a certain suburb, or can you be flexible about your location? All of these considerations will impact how much you pay for your housing.

**UTS HOUSING**

The UTS Housing Service provides support for UTS students, including information and assistance on UTS residences and a range of private accommodation options.

**LIVE ON CAMPUS: UTS-OWNED ACCOMMODATION**

UTS has five residences available to UTS students, on or close to the City campus.

> **Blackfriars** offers self-contained rooms exclusively for postgraduate research students, in heritage buildings in Chippendale, just minutes from the City Campus.

> Only five minutes’ walk from the UTS City Campus, the newly-built **Yura Mudang** has space for 720 students in studio and shared apartments with allocated space for postgraduate research students.

> **Geegal** is a purpose-built group of townhouses with space for 58 students, a 10 minute walk from UTS.

> Located on Broadway in the Quadrant Apartments complex, **Gumal Ngurang** is a modern apartment building with space for 253 students in studio, one-bedroom or shared apartments.

> Next door to Gumal Ngurang, **Bulga Ngurra** is a modern apartment building with space for 111 students. It’s only five minutes from UTS and the UTS Library. All UTS residences are secure and competitively priced. Most bedrooms are for one person, with shared kitchens, bathrooms and living areas. Apartments are fully-furnished and rent includes gas, electricity, water bills and internet access in communal areas. You will need to provide your own bed linen and cooking equipment. Rent fees are different for each residence, and there is a non-refundable application fee of A$30. You are advised to apply early as UTS student residences are popular, and submitting an application doesn’t guarantee you a place.

For more information, please visit the UTS Housing website: www.housing.uts.edu.au

**RENTING PRIVATE ACCOMMODATION THROUGH UTS HOUSING**

Some students plan to stay with relatives or friends in Sydney, while others choose to rent private accommodation. If you are organising private accommodation, such as your own apartment or shared living, consider arranging short-term accommodation in Sydney when you first arrive to give yourself adequate time to make a decision about where you want to live.

Visit UTS Housing’s off-campus accommodation website, to find out about share rooms in private houses and apartments close to UTS campuses: www.ssu.uts.edu.au/housing/about

Share accommodation means you have your own room and share a kitchen, living area and bathroom with other students or people who work. Alternatively, you may choose a studio or one-bedroom apartment to live on your own, but this may be more expensive.

**FINDING YOUR OWN ACCOMMODATION IN SYDNEY**

The Sydney rental market is extremely competitive. Tenants normally apply for rental accommodation through a real estate agent, who will request a range of specific information about your rental and employment history before considering you as an eligible tenant. Consider bringing copies of written references from landlords or agents who have rented to you in the past. You may also be required to show proof of your financial position, including current payslips, and evidence of your prior employment history.

Some students may wish to make their own accommodation arrangements without assistance from the UTS Housing Office. If you choose this option, take some time to get to know Sydney, the rental market and the average cost of accommodation before choosing where you live.

Don’t pay any money before viewing and being satisfied with a non-UTS property. Until you arrive and get a feel for the area you want to live in, you won’t know that it’s right for you.

**INTERNATIONAL STUDENT VISA REQUIREMENTS**

It is a requirement of the Australian Department of Immigration and Citizenship that prospective international students need to demonstrate that they have access to at least A$18,610 a year to fund their living costs in Australia. On page 12 are some approximate figures for on- and off-campus housing costs. Please note that these are an estimate only.
**SUPPORT SERVICES**

**UTS GRADUATE RESEARCH SCHOOL**
The UTS Graduate Research School (UTS GRS) provides central support for current research students at UTS. At UTS GRS, the staff can assist you with changes to your candidature, scholarships and study queries as well as provide you with access to a range of workshops, online resources and materials available to help develop your skills and knowledge as a researcher throughout your candidature.


**THE UTS FRAMEWORK FOR DOCTORAL EDUCATION**
UTS has developed a unique and innovative approach to doctoral education with the launch of the UTS Framework for Doctoral Education. The Framework has a dual focus: the development of the researcher and the advancement of knowledge. It is a structured program for research students that puts clear guidelines in place to support the development of advanced disciplinary knowledge, research skills and practices.

The Framework makes clear that faculties and the university have a role to play in supporting research students in reaching their research goals and assisting them to make a meaningful contribution to their field of study.


**RESEARCH STUDENT WORKSHOPS**
UTS GRS runs a series of research student workshop programs throughout the year. The workshops, which sit within the UTS Framework for Doctoral Education, aim to support and develop your research skills, knowledge and confidence.

RESEARCH STUDENT INDUCTION PROGRAM
UTS GRS runs an induction program for commencing doctoral and masters by research students. The program provides you with the knowledge and skills appropriate for planning a successful candidature.
www.gradschool.uts.edu.au/researcher-skills/induction-program.html

UTS LIBRARY
The UTS Library provides a mix of spaces to best meet your study and research needs. There is a dedicated centre for UTS postgraduate research students and staff, as well as designated quiet environments and silent study rooms. Library staff also run a series of workshops throughout the year for research.
www.lib.uts.edu.au
www.lib.uts.edu.au/help/tours-workshops/research-skills-postgraduates-staff

WINTER AND SUMMER SCHOOLS
UTS GRS Research Literacy and Statistics for Research Winter and Summer Schools are intensive three-day schools run in July and December of each year. The schools are intended to provide you with the complementary skills and knowledge required to successfully progress through your candidature.
www.gradschool.uts.edu.au/research-skills/winter-summerschool.html

SOCIAL ACTIVITIES
UTS GRS, with the support of UTS Union and Student Services is home to a vibrant social community, both online and off. You can engage with official Facebook and Twitter accounts and can attend regular social events to engage with the research community. These events include volleyball at the UTS Multi-Purpose Sports Hall, a free monthly coffee catch up for research students and a range of parties, dinners and other functions.

SAFETY AND SECURITY
UTS fosters a safe and secure environment for students, staff and visitors, with 24-hour security assistance on and around the city and Kuring-gai campuses. This includes accessible security office, regular patrols, an emergency telephone network and closed circuit television cameras. Many research students work late at night or on weekends, and can feel confident that their safety is being looked after. If you would like additional security when leaving the campus or returning to a UTS residence, you can access the UTS security escort service or a security shuttle service.

CULTURE AND FAITH
UTS is home to a dynamic student body from a range of cultural and religious backgrounds, and we take great pride in providing spaces for students to celebrate and worship their respective faiths. The UTS Chaplaincy Service provides services for Baha’i, Buddhist, Christian, Jewish and Muslim students. Lunchtime meditations are held throughout the semester and there are a number of clubs and societies that offer spiritual support.

SPECIAL NEEDS
Students with disabilities or ongoing medical conditions which may affect their study are supported by the UTS Special Needs Service. A range of services are provided and you can discuss your individual needs with the Special Needs team upon arriving at UTS.
www.ssu.uts.edu.au/sneeds

HELPs
UTS is committed to helping students develop their English language proficiency throughout their courses of study. Higher Education Language & Presentation Support (HELPs) is a new service dedicated to the provision of English language and academic literacy support to UTS students via free non-credit programs and services. These include drop-in consultations, conversation classes to practise your English conversation skills and intensive academic English programs.
www.ssu.uts.edu.au/elps

UTS INTERNATIONAL
The UTS International team offers advice and support for international students throughout the application process and during their studies at UTS. You can drop in to see our international student advisers who can help you adjust to life in Sydney and study at UTS, assist with visa administration queries and answer general enquiries.
www.uts.edu.au/international
Welcome from the Associate Dean of Research, Professor Lesley Farrell

Arts and social sciences play a key role in shaping the societies we live in through the dissemination of creative, cultural, social and educational knowledge. As a research student in UTS Arts and Social Sciences, you will be encouraged to take disciplinary and interdisciplinary approaches to higher degrees by research and you will be given the opportunity to work in a range of traditional and contemporary fields. We focus on developing research capabilities relevant to academic and professional careers and encourage students to think beyond traditional boundaries throughout their course of study.

Research in this faculty encompasses the breadth of arts and social sciences, from health communication, language studies and media studies to education at school at work and in the community, as well as studies of contemporary China. As part of your research degree, you will have the opportunity to engage with the most exciting and challenging new knowledge in your field and to produce a major creative work (for example, film, video, sound/audio, photography, journalism or creative writing), a professional portfolio or a dissertation. You will also have the chance to work with researchers who are internationally recognised leaders in their fields.

**RESEARCH STRENGTH CENTRES**

**China Research Centre:** looks at issues of contemporary China that are interdisciplinary, theoretically engaged and of relevance to Australian society and the international community.

**Cosmopolitan Civil Societies:** brings together scholars from a range of disciplines in the broad social sciences and humanities.

**Creative Practice and Cultural Economy:** provides a unique framework for the investigation of creative practice within a cultural economy context.

**Centre for Research in Learning and Change:** investigates the changing contexts and practices of contemporary life resulting from globalisation, increased mobility and new technologies.

**Transforming Cultures:** explores cultures in the process of transformation as well as cultures that are transforming societies across the globe.

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**RESEARCH DEGREES**

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"The main purpose of my PhD is to contribute to the understanding of the kind of literacies that are required in the digital age," says Sirinut Sawatdeenarunat, an education student undertaking a PhD in the Centre for Research in Learning and Change.

According to her supervisor, Associate Professor Liam Morgan, the work will have a significant impact on the way that English is taught and learned, particularly in Sirinut’s home country of Thailand.

"The project will assist teachers in developing new teaching strategies around the integration of new web technologies into the teaching and learning of English as a foreign language." Associate Professor Morgan says.

Now in her third year of study, Sirinut says her research is already demonstrating the importance of students setting clear goals for search topics online in order to generate suitable search terms.

Upon completing her degree, Sirinut will take her expertise back to Thailand where she will use it to develop more effective teacher education programs.

"It’s about helping teachers to conceptualise effective online practices – once teachers understand the sort of literacies that students need, they’ll be able to support them more effectively."

GRADUATE PROFILE:
Anna Funder, Doctor of Creative Arts

UTS graduate Anna Funder is the internationally acclaimed author of Stasiland, a collection of non-fiction stories from East Germany during the war; and All That I Am, a novel. A graduate of the UTS Doctor of Creative Arts program, Anna was the winner of the prestigious 2004 BBC Four Samuel Johnson Prize for Stasiland. Her UTS PhD project, All That I Am, won the Independent Booksellers Award for Best Debut Fiction, the Australian Booksellers Association Best Literary Fiction and Book of the Year, the Barbara Jefferis Prize, Indie Book of the Year and the Miles Franklin Award, all in 2012.

"Studying at UTS was wonderful for me," Anna says.

"Universities are places where creative artists find institutional support – whether that’s a room, finance, exhibition space, the chance to work on a magazine, the library, and colleagues.

"UTS has a reputation as a creative place, and I admired many of the teaching faculty. Writing is pretty isolating, and being part of the UTS community tempers that in just the right way."
Welcome from the Associate Dean of Research, Professor Stephen Taylor

UTS Business School conducts innovative research across all major business disciplines. Our aim is to produce knowledge with impact, and research is absolutely fundamental to this objective. We place great importance on producing research which is not only academically excellent, but which also impacts the world in which we live.

The UTS Business School PhD comprises three stages. Stage 1 focuses on skills acquisition and development, and Stage 2 continues this process along with the development of a dissertation topic as well as at least one other joint research project. Stage 3 is focused on completion of the dissertation. All PhD candidates are supervised by a committee of at least three academics, with one of those often being from another discipline to the one in which the candidate is based.

RESEARCH CENTRES

Centre for Corporate Governance: supports a comprehensive, interdisciplinary approach to corporate governance.

Centre for Health Economics Research and Evaluation: looks at the development and application of health economics and health services.

Centre for Management and Organisation Studies: develops theory and applied knowledge concerning management and organisations.

Centre for the Study of Choice: delivers research solutions to public and private partners seeking a better understanding of human choice behaviour.

Cosmopolitan Civil Societies Research Centre: investigates the practices that are crucial in enabling social cohesion and change in cosmopolitan societies.

Quantitative Finance Research Centre: focuses on financial risk management and associated quantitative methods.

Paul Woolley Centre for the Study of Capital Market Dysfunctionality: established to research dysfunctionality in financial markets, and the financial institutions that operate within these markets.

MULTI-INSTITUTION RESEARCH COLLABORATIONS

> Capital Markets CRC
> Financial Integrity Research Network
> Centre for International Finance and Regulation

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STUDENT PROFILE:
Alison Pearce, PhD student

For Alison Pearce, undertaking a PhD at Centre for Health Economics Research Evaluation (CHERE) was an obvious choice.

"CHERE is recognised nationally and internationally as a centre of excellence in health economics and health services research," Alison says.

Alison is undertaking a PhD into the economic aspect of chemotherapy treatments for cancer care.

"When deciding whether a new chemotherapy treatment for cancer should be subsidised by the government for availability to the community, it is assessed on the basis of how well it treats the cancer, and how much it costs the government and health care system," Alison says.

According to Alison’s supervisor, leading health economist Professor Marion Haas, Alison’s PhD touches on important issues both for governments and for communities accessing cancer care programs.

"Decisions about which cancer treatments to fund need to take into account all the costs and benefits associated with alternative treatments, including the costs and outcomes of the side-effects of such treatments," Professor Haas says.

"At CHERE, we have an interest in research that can help inform government funding decisions in order to make the health dollar go further and work harder for greater numbers of patients."

PROJECT PROFILE:
Matthew Grosse, PhD student, and Professor Andrew Ferguson

"The Australian economy is heavily dependent on the resources sector; however, little research has been undertaken in the capital market setting focused on this sector," says Matthew Grosse, a PhD student in the UTS Business School.

Matthew’s PhD looks at capital market behaviour in the Australian mining industry. The work is a continuation of the research interests he developed during his Honours degree at UTS.

"As a nation, we need to know more about this industry in order to make informed policy choices, and that’s where Matt’s research will play a role," says Professor Andrew Ferguson, Matthew’s supervisor.

Having already completed his undergraduate and Honours degrees at UTS, the next logical step for Matthew was a PhD.

"The decision to undertake a PhD at UTS reflects good supervision options in the Business School, and the chance to work in a team dedicated to exploring key issues in the resource sector," he says.

"Professor Ferguson has developed a small but dedicated team of researchers who are investigating topics related to the mining industry. The team environment has been very helpful – we’re able to share our ideas and work together on research projects outside of our PhDs."
Welcome from the Associate Dean of Research, Professor Peter McNeil

Research in UTS Design, Architecture and Building (DAB) seeks to lead the development of the academic disciplines of design, architecture and the built environment. Our researchers use theoretical, historical and philosophical approaches in order to understand how we assign value and meaning to space, objects, materiality and the management of the built environment. We explore the agency of the designer and architect in making all aspects of the 21st-century city. We investigate the financial, social, and institutional contexts that mediate urban development and regeneration.

The design and built environment professions are currently in flux, confronting the effects of a digital and globalised world, changing financial markets, volatile ecologies, social transformation, and the subsequent increasing complexity of design thinking and development practice. We must create more sustainable urban environments that value place and traditions without nostalgia. In developing new professional practices we also create new critical frameworks that evaluate and reflect on the role of these disciplines in broader cultural, social and historical contexts.

The Faculty’s facilities and resources include the Immersive Construction Environment (ICE) Studio, which features a stereoscopic 3D screen to visualise and simulate building models and construction processes; a digital workshop with 3D printers and laser cutters; and a new multi-screen integrated teaching space. DAB Lab is the exhibition window for parts of DAB research, located in our central courtyard. It documents our practice-based research and allows us to further our industry partnerships. A newly constructed, designated postgraduate research space includes workspaces for full time research candidates and postdoctoral fellows, and informal meeting and seminar spaces.

RESEARCH STRENGTH CENTRES

Centre for Contemporary Design Practices: The centre orientates its research around themes of transformation and change in design practices, mapping out a terrain within which the design professions will be reformulated. CCDP provides an intellectual catalyst and financial support for the mentorship and future practice of early and mid-career researchers in the Faculty. The Centre encourages speculative approaches across disciplines to enable innovative practices with our industry partnerships. CCDP values the inter-relationship between theory and practice, creating distinctive research impact and production.

OTHER FACULTY RESEARCH CENTRES

> Asia Pacific Centre for Complex Real Property Rights
> Built Environment Design and Management
> Designing Out Crime Research Centre

RESEARCH DEGREES

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STUDENT PROFILE:
Linda Matthews, PhD student
Linda Matthews is undertaking a PhD in the School of Architecture at UTS DAB. Her research looks at the development of architectural and urban design methodologies that utilise the optical logics of digital surveillance systems.

“My research can potentially offer designers, and the architectural discipline as a whole, new techniques for design intervention within the urban environment,” she says.

Linda chose to study at UTS because of what she calls the University’s, “entrepreneurial approach and willingness to embrace best international practice”.

“The UTS ethos and methodological approach to architecture is in line with the practice of international, cutting-edge architectural schools, making it a great fit for my needs,” she says.

Linda is supervised by the Dean of the Faculty, Professor Desley Luscombe.

PROJECT PROFILE:
J. Alejandro Monroy, MDes student, and Dr Olga Camacho Duarte
J. Alejandro Monroy is undertaking a Master of Design by research in the Designing out Crime (DoC) research centre at UTS. Alejandro is looking at ways to apply design methodologies and strategies to reduce situational crime in urban areas. His research focuses on night-time economies in Sydney’s Kings Cross area.

“My research addresses a key social issue that is truly global. Situational crime is not an issue that is limited solely to Sydney, or even to urban areas – it really impacts residents of towns and cities around the world,” he says.

“This work has the capacity to change the way people think about crime prevention, not only by making them more aware of the problem, but also by demonstrating that collaboration is a powerful and effective way of tackling crime.”

The DoC research centre is internationally recognised as a leader in innovative, creative and socially responsive design that increases the safety and functionality of buildings and public spaces.

Alejandro’s project is being supervised by Dr Olga Camacho Duarte, a Postdoctoral Fellow at DoC.

“While most people think about crime prevention as a law enforcement issue, design processes and methodologies have a lot to offer in terms of tackling situational crime and antisocial attitudes in public spaces,” says Dr Camacho Duarte.
Welcome from the Associate Dean of Research, Professor Mary-Anne Williams

Our faculty is a leader in real world, problem-inspired research and practice-based research training. We offer a vibrant, multidisciplinary research culture and outstanding research centres with extensive links to industry and the international research community. Students can conduct their research in a range of areas, including analytics, health technologies, bioinformatics, human-centred technology design, quantum computation, intelligent systems, real-time network technologies, wastewater technologies, robotics and autonomous systems. Our faculty research direction is drawn from a strategic desire to address significant real world challenges.

Research students engage in rigorous and innovative industry-relevant research under the guidance of world-leading researchers. The faculty is taking great strides in developing its international reputation and continues to rise in world rankings year-on-year. Over the last five years we received more than 80 Australian Research Council projects and attracted research funding well in excess of $25 million.

**RESEARCH STRENGTH CENTRES**

- **Advanced Analytics Institute**: innovation, practice-driven analytics, decision-making research and services in broad-based analytics areas.
- **Centre for Built Infrastructure Research**: seeks solutions to global problems in building structures, materials, design, management, improvement, safety and conservation.
- **Centre for Health Technologies**: health and disease processes; biomedical engineering; and detection and diagnosis of a range of disease states.
- **Centre for Human Centred Technology Design**: brings together a range of information and communication technology research through a shared, human-centred design agenda.
- **Centre for Innovation in IT Services and Applications – INEX**: innovation for NEXT generation IT services and applications, with an emphasis on commercialisation.
- **Centre for Intelligent Mechatronic Systems**: electrical machines and power electronics, integrating mechanical, electrical and electronics engineering and computer systems.
- **Centre for Quantum Computation & Intelligent Systems**: theoretical foundations, innovative technology and practical systems for next generation enterprise intelligent information systems.
- **Centre for Real-Time Information Networks**: real-time information and communication technologies to engineering systems for social benefit.
- **Centre for Technology in Water and Wastewater**: management of water resources in urban and rural environments.

**OTHER FACULTY RESEARCH CENTRES**

- Centre for Autonomous Systems
- Centre for Energy Policy
- Centre for Electrical Machines and Power Electronics

**MULTI-INSTITUTION RESEARCH COLLABORATIONS**

- National Centre of Excellence in Desalination

**INFORMATION TECHNOLOGY RESEARCH DEGREES**

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**ENGINEERING RESEARCH DEGREES**

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STUDENT PROFILE:
Pramod Parajuli, PhD student

Pramod Parajuli is an Australian Leadership Award Scholarship holder and winner of a 2012 IBM PhD Fellowship. He is undertaking a PhD at the Centre for Quantum Computation and Intelligent Systems (QCIS).

“Pramod is building on his experience working in industry to develop a sophisticated and innovative model for managing risk in large complex safety critical projects where failure is not an option,” says the Associate Dean of Research and Pramod’s supervisor, Professor Mary-Anne Williams.

“The research will help to ensure the success of projects involving a large number of interrelated complex tasks.”

The research is applicable across a huge number of sectors, with the capacity to impact project-based work in government, industry and community organisations.

“In the past, many projects in government, businesses and the community have been run inefficiently, ineffectively and over budget and time – in many cases, this is due to conflict between project stakeholders, which slows down the project process and increases costs,” Pramod says.

“My research suggests better ways of resource sharing and managing risk, which can ultimately enhance the efficiency of large projects.”

PROJECT PROFILE:

Anh Nguyen, PhD student, and Professor Hung Nguyen

Anh Nguyen is a PhD student whose research is being supervised by co-director of the UTS Centre for Health Technologies (CHT), Professor Hung Nguyen. They are working on a project to develop a semi-autonomous wheelchair.

“The chair is able to read the user’s brainwaves to decipher what they want to do – whether it’s moving forwards or backwards, slowing down, turning in a specific direction or moving through a doorway – and navigate for them, without collisions,” Anh says.

“This research has a significant impact for people with severe disabilities. It assists them to have greater mobility, more independence and to feel more confident in their everyday lives.”

According to Professor Nguyen, Anh’s talents are well suited to the CHT, which provides exciting and fertile ground for innovation.

“CHT is one of the most innovative research centres in the development of biomedical devices and biotechnology therapeutics,” Professor Nguyen says.

“Students like Anh who are interested in applying their talents in such a meaningful and fast-paced area of engineering would do well to consider a research degree at UTS.”
Welcome from the Associate Dean of Research, Professor Christine Duffield

UTS Health is dedicated to research and teaching across a broad spectrum of health topics. The Faculty is renowned for its strength in nursing, midwifery and health services research, and has recently expanded to incorporate offerings in public health and complementary medicine, sport and exercise science and cardiovascular and chronic care.

UTS Health has an established reputation with industry on a range of local, national and international projects. As a World Health Organisation (WHO) Collaborating Centre for Nursing, Midwifery and Health Development, the faculty is part of an international health care network and supports WHO objectives for global public health. Closer to home, UTS Health academics have developed strong and ongoing research partnerships with a range of industries including sporting organisations and acute, sub-acute, community and aged care facilities.

Students seeking to undertake a higher degree by research in the field of health will have access to a range of exciting degree opportunities that integrate research and practice, preparing them for careers in industry, academia, teaching or management. UTS Health is committed to collaborative research that has a real impact on the health of communities, with a focus on innovative research that improves practice and informs policy.

RESEARCH STRENGTH CENTRES
Health Services and Practice: aims to improve the quality of practice in the delivery of health services in a wide range of health settings.

OTHER FACULTY RESEARCH CENTRES
> Centre for Cardiovascular and Chronic Care
> Centre for Health Services Management
> Centre for Midwifery, Child and Family Health

MULTI-INSTITUTION RESEARCH COLLABORATIONS
> WHO Collaborating Centre for Nursing, Midwifery and Health Development
> National Health and Medical Research Council Centre for Research Excellence – Centre for Informing Policy in Health with Evidence from Research

RESEARCH DEGREES

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STUDENT PROFILE:
Brett Abbenbroek, PhD student

Brett Abbenbroek is a third-year PhD candidate at UTS Health. His research looks at planning and management in hospital-based critical care settings in an effort to improve patient outcomes and organisational efficiency.

“My research is important because it will inform the ongoing planning for health services to manage critically ill patients,” Brett says.

“I have studied at three other Australian universities and chose UTS because of its strength in health services management. I’ve also had previously professional dealings with faculty staff and found them to be innovative, flexible and receptive to alternative views.

“I’m confident my research will be robust, meaningful and will make a difference in the field.”

Brett is co-supervised by Professor Christine Duffield, an international expert in nursing workforce planning, and Professor Doug Elliott, who says that Brett’s research can provide a foundation for the redesign of key ICU services.

“Currently, there is no empirical evidence to support the role that variables like size and structure play in patient outcomes, so Brett’s findings will be important for future re-designs in intensive care services,” Professor Elliott says.

“Research within the UTS Health faculty is all about making positive changes within the health care sector, and Brett’s work is a great fit.”

STAFF PROFILE:
Dr Sally Inglis

Senior Research Fellow Dr Sally Inglis is investigating the epidemiology of peripheral arterial disease, a condition caused by a build-up of plaque in the body’s arteries that can limit the flow of blood to the extremities.

Dr Inglis joined UTS in 2011 after undertaking an NHMRC/Heart Foundation Postdoctoral Fellowship in public health in Glasgow. Since returning to Australia, she has been the recipient of an OMR-CVRN Life Sciences Research Fellowship from the Heart Foundation and has also been invited to share her expertise in a role on the NHMRC Postdoctoral Reference Group.

Dr Inglis is a key member of the Centre for Cardiovascular and Chronic Care in the Faculty of Health.

“I co-supervise students enrolled in the Bachelor of Medical Science Honours degree as well as supervising experienced clinical nurses undertaking their PhD,” Dr Inglis says.

“My students are undertaking research that examines the current management of peripheral arterial disease; investigates innovative ways to relieve thirst in chronic heart failure; the contemporary management of chronic obstructive pulmonary disease and the problem of atrial fibrillation in patients with chronic heart failure.”
Welcome from the Associate Dean of Research, Professor Lesley Hitchens

At UTS Law we seek to provide degrees that give students an opportunity to make a major contribution to knowledge and potential for real-world change. We are home to world leading centres such as Anti-Slavery Australia, and offer higher degrees by research across five faculty research networks: corporate, commercial and tax law; criminal justice and criminology; health, family and communities; IP, media and communications; and international law, human rights and environment.

Our research is disseminated through academic publications as well as through contributions to current policy debates by submissions to government inquiries, law reform commissions and other public bodies.

As a faculty, we greatly value student research and research training. You can work alongside an exciting team of nationally and internationally recognised research staff who have a wealth of real-world experience and insights into the world of law, and who can provide supervision that combines both research and practical expertise to enhance your student experience.

If you have an interest in furthering your education through research, and if you have passion for law and a desire to undertake applied research degree with the capacity to impact the legal discipline and those who engage with it, then I encourage you to consider bringing your talents to UTS Law.

RESEARCH STRENGTH CENTRES

Law Research Centre: excellence in academic research, serving the community and the professions; contributes to law reform; and, assists in the creation of a just and principled society.

OTHER FACULTY RESEARCH CENTRES

> Anti-Slavery Australia (ASA)
> Australasian Legal Information Institute (AustLII)
> Communications Law Centre (CLC)

RESEARCH DEGREES

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The use of offensive language in a public place is a crime in NSW, and similar crimes exist across Australia. However, the law does not clearly define ‘offensive’ language. According to PhD student Elyse Methven, this lack of clarity provides judges and police with broad powers that are open to abuse. Elyse’s research aims to inform the existing legal debate around the criminalisation of offensive, obscene or indecent language in public places.

“My PhD asks how the law represents and legitimises offensive language crimes. In other words, I look at the ways in which police, judges, and politicians use language to construct a particular reality around the meaning of ‘offensiveness’, and how they justify the criminalisation of swearing,” she says.

Associate Professor Katherine Biber, Elyse’s co-supervisor, says that the work is a shining example of the sort of research being undertaken within the faculty.

“We encourage students to get involved in research that has implications in the real world. Elyse’s work is significant from a policy perspective; it will hopefully encourage politicians to take a closer look at the justifications that exist for criminalising offensive language,” Professor Biber says. Elyse chose to study at UTS Law because of what she describes as the Faculty’s critical and progressive approach.

“Consequently, I thought it would be an ideal environment in which to do a PhD. My supervisors have been central in guiding my research so that I will make an original and meaningful contribution to law research.”

Professor Jenni Millbank is an internationally acclaimed socio-legal researcher in the field of gender, law and sexuality. Her major site of inquiry is family and relationship law including same-sex and relationship and family recognition, assisted reproduction and surrogacy.

Professor Millbank is currently finalising a socio-legal study with colleagues Isabel Karpin and Anita Stuhmcke, examining people’s decision-making around stored embryos created in IVF.

“We want to find out how the law has shaped, and at times constrained, people’s choices. Are there things they wish they could have done differently? And how should law accommodate people’s feelings and wishes about embryos?”

Professor Millbank is also actively involved in research into refugee law, human rights and forced migration, and is commencing a large comparative project on gender related persecution with colleague Catherine Dauvergne at the University of British Columbia.

Professor Millbank says that undertaking a Masters or doctoral degree within the Faculty gives students exposure to a wide range of legal, theoretical and practical expertise.

“UTS Law offers great opportunities for HDR students to work closely with some of Australia’s leading legal experts whose cutting edge research is helping to shape our society.”
Welcome from the Head of School, Professor Charlie Benrimoj

At UTS Pharmacy we are committed to leading innovation and change through research that is strongly linked to industry, the pharmacy community and the population.

We offer Masters and PhD degrees with a focus on drug delivery in cancer and respiratory disease, professional integration, professional cognitive pharmaceutical services, community and hospital pharmacy, pharmaceutical industry and the role of pharmacy in consumer self-care. Students are encouraged to engage with both disciplinary and interdisciplinary approaches and to focus on developing research capabilities relevant to both academic and professional careers.

Our researchers have international reputations for shaping policy and practice and are actively involved in a range of industry collaborations with organisations like PricewaterhouseCoopers, Royal North Shore Hospital (Australia), University of Toronto (Canada), University of Granada (Spain), University of Lisbon (Portugal) and University of Helsinki (Finland).

UTS recently invested over $110 million in state-of-the-art facilities and equipment, making it among the best science facilities in Australia. This includes six levels of teaching and research laboratories equipped with cutting-edge technology, spaces and resources.

Research students within the School enjoy intellectual support through supervision, seminars (university, faculty, research strength) and conferences; student networks, through both virtual and on-site communities; research laboratory facilities including units and centres at affiliated sites; and teaching / tutoring opportunities, when appropriate.

RESEARCH AREAS

> Pharmacy practice (community and hospital)
> Cancer
> Asthma
> Cardiovascular disease, including stroke prevention
> Pharmaceutical science

RESEARCH DEGREES

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</table>
I’m trying to define a new pathway in which multi-drug resistance occurs in cancer cells, using high-resolution microscopy,” says Penny Dalla, a Masters by Research student at UTS Pharmacy.

“If we can define exactly how a cell changes from being drug sensitive to being multi-drug resistant, then we might be able to find a target to stop the resistance from occurring.”

The research gives Penny the opportunity to work collaboratively across the UTS campus, engaging with equipment, facilities and academics in a range of faculties.

“In particular, I have access to some of the microscopes in the ithree research centre, including the DeltaVision OMX super resolution microscope, which is key to my work,” she says.

Penny’s research is part of a larger body of work being led by her supervisor, Professor Mary Bebawy. Professor Bebawy’s research group is now leading the world in microparticle research in relation to multidrug resistance in cancers.

“I chose to study at UTS because this is where Mary is. I’m able to work on something much greater than myself, which has the potential to help millions of people living with cancer around the world,” Penny says.

Professor Mary Bebawy is recognised as an international leader in the field of cancer multi-drug resistance. She and her team are working on a range of diagnostic and treatment opportunities for cancers that have become resistant to multiple drugs.

“My lab is currently funded by the NSW Cancer Council and NHMRC to define and understand a novel pathway which we discovered contributes to cancer multidrug resistance,” Professor Bebawy says.

“This research will provide fundamental knowledge as to how cancer cells resist the toxic effects of anti-cancer drugs.”

Professor Bebawy’s team is comprised of a number of research students, both at Masters and PhD level, who are keen to translate their interest and expertise in cancer research into relevant research with real-world outcomes.

“Here at the UTS Pharmacy, there is a tremendous focus on ensuring that the research journey is positive for our students,” Professor Bebawy says.

“The facilities, infrastructure, technical expertise and support systems we have to offer enrich the HDR journey and ensure that our students are independent, highly skilled and qualified researchers at the end of their candidature.”
Welcome from the Associate Dean of Research and Development, Professor Greg Skilbeck

UTS Science contributes about 40 per cent of the total research activities and outputs at UTS. The Faculty’s exciting and supportive environment gives postgraduate students the opportunity to work with highly skilled academic and technical staff with access to cutting edge technology. UTS Science conducts highly competitive, focussed research through its research intensive centres and institutes in environmental sciences, infectious disease, forensics, nanoscale technology, clean energy, medical and health sciences as well as in the fundamental and theoretical aspects of mathematics, physics, chemistry, biology and geosciences.

Research students work on a wide variety of projects under the supervision of highly motivated, world-class researchers and academics. Our students are exposed to the excitement of research at the frontiers of human knowledge, acquiring fundamental capabilities in the scientific method of investigation which is an essential asset for professionals working in academia and industry. Many research projects are conducted in close collaboration with industry and government research organisations. As a result, more than 80 per cent of our postgraduate students find professional employment within three months of graduation.

RESEARCH STRENGTH CENTRES

i3 three institute (i3): addresses key challenges in the understanding and control of infectious disease in humans and animals.

The Plant Functional Biology and Climate Change Cluster (C3): uses technology to measure and predict the structure, function and health of plant-based ecosystems.

Centre for Forensic Science (CFS): incorporates an interdisciplinary research approach to address crime and security issues.

Centre for Environmental Sustainability (CEnS): seeks to develop an understanding of the aquatic environment from catchment to coast.

Centre for Materials and Technology for Energy Efficiency (MTEE): looks at energy efficiency in solid state lighting, electrochemical energy storage, photovoltaics, plasmonics, daylighting physics and related computational modelling.

Centre for Health Technologies (CHT): conducts research into health and disease processes; biomedical engineering; and detection and diagnosis of a range of disease states.

Centre for the Study of Choice (CenSoC): leads research that delivers innovative theoretical and predictive research solutions to public and private partners seeking a better understanding of human choice behaviour.

The Quantitative Finance Research Group (QFRG): focuses on financial risk management and the associated quantitative methods that can be implemented in the local and global finance industry.

Institute for Nanoscale Technology (INT): analyses and develops nanoscale, mesoscale and microscale materials and structures.

OTHER FACULTY RESEARCH CENTRES

> Centre for Clean Energy Technology (CCET)
> The Health Psychology Unit (HPU)

MULTI-INSTITUTION RESEARCH COLLABORATIONS

> Australian Technology Network of Universities (ATN)
> ARC Centre of Excellence for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS)
> Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE)
> Cooperative Research Centre for Cotton Catchment Communities CRC
> Automotive Australia 2020 CRC (AA202CRC)
> CSIRO Marine Coastal Carbon Biogeochemistry Cluster

RESEARCH DEGREES

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<tr>
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<td>C02031</td>
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</table>
FACILITIES PROFILE:
UTS Science gives research students access to a unique collection of specialist equipment and laboratories to support their work. Among them is the DeltaVision OMX Blaze super resolution imaging system that records real-time multiple colour images of interactions between microorganisms and living cells. The Faculty also houses a research-grade material fabrication and characterisation facility, the first of its kind for applied research in the field of nanoscale materials physics. The Facility is a product of UTS’s relationship with FEI Company, which gives research students and staff unprecedented control over the creation and testing of materials at the microscopic level. Another successful partnership between UTS and Agilent Technologies, has resulted in the development of two cutting edge facilities: an elemental bio-imaging lab which supports researchers studying metals and their interactions with proteins in the body, and a nuclear magnetic resonance facility that brings the latest technology online to support the study of a range of disease states including cancer.

STAFF PROFILE:
Dr Joshua Chou
Chancellor’s Postdoctoral Fellow Dr Joshua Chou completed a PhD at UTS in 2010. He is a specialist in biomaterials, tissue engineering and drug delivery systems. He is working on the development of new bone graft materials made from coral sands that can be used to rebuild fractures and osteoporotic bone injuries.

Dr Chou started at UTS as an undergraduate student, completing a degree in nanotechnology before entering his Honours year. His supervisor, Professor Besim Ben-Nissan, encouraged him to apply his knowledge to a PhD in biomaterials.

“My supervisor had been working in this field for 30 years and he’s really well known, so following in his footsteps was an obvious choice,” Dr Chou says.

“The research environment at UTS was another factor in my decisions to undertake a PhD, and to continue on at UTS as a postdoctoral fellow.

We have a really good research group here; the environment gives you space to explore your own creativity and the science behind your ideas.”
Welcome from the Director, Professor Stuart White

The Institute for Sustainable Futures at UTS tackles the challenges of sustainability research through an applied, integrated and inter-disciplinary research program that actively contributes to the environment by helping businesses seeking sustainability solutions.

We conduct independent, project-based research for Australian and international clients in government, industry and community organisations. Examples include the Decentralised Energy Costs and Opportunities for Victoria project in partnership with Sustainability Victoria; Clean Technology Applications in Tourism Accommodation project with the Sustainable Tourism Cooperative Research Centre; and the Planning for Resilient Water Systems – Methods for Decision Making with the Smart Water Fund.

The Institute supports postgraduate study that addresses complex societal problems and explores complex sustainability challenges. We offer both doctoral and masters programs, giving graduates the opportunity to apply their knowledge to a vast range of sustainability topics, such as water policy to climate change to transport and creating change in the building industry, depending on their area of interest or expertise.

As a research student, you’ll have the chance to work side-by-side with sustainability experts who can provide you with high-quality support, expertise and training, ensuring you get the most out of your degree. Our staff are leading thinkers in the field of sustainability and the Institute is recognised as one of Australia’s most highly-regarded sustainability research organisations in a variety of fields.

RESEARCH AREAS

> Cities and buildings
> Corporate sustainability
> Energy and climate change
> International development
> Local government
> Natural resources and ecosystems
> Resource futures
> Social dimensions of sustainability
> Transport
> Water and sanitation

MULTI-INSTITUTION RESEARCH COLLABORATIONS

> CSIRO Flagship Cluster – iGrid Intelligent Grid
> CSIRO Flagship – Mineral Futures Collaboration Cluster

RESEARCH DEGREES

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<tr>
<td>Doctor of Philosophy</td>
<td>C02037</td>
<td>032334B</td>
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</table>
The aim of my research project is to identify the cost reduction potential of concentrated solar power plants by hybridising them with other energy sources like biomass and waste materials,” says Juergen Peterseim, a PhD student at ISF.

“There is a genuine need to accelerate the implementation of solar thermal power generation in Australia to help break our reliance on coal and other fossil fuels.”

Currently in the second year of his PhD, Juergen chose UTS because of an existing relationship with his supervisor, Professor Stuart White, and because of the applied nature of the work that was being undertaken at the institute.

“ISF has a unique profile, and I was attracted by the interdisciplinary nature of their work,” Juergen says.

“I found that Stuart’s experience in energy and general sustainability was a great complement to the in-depth power plant skills of my co-supervisors. Having access to expertise across the breadth of the sustainability field was a real drawcard.”

An International Research Scholarship and UTS President’s Scholarship holder, Jurgen says the funding support has been crucial in helping him balance the demands of an academic career and having a family.

ISF researchers are playing a leading role in a new five green star development at the southern end of Sydney’s CBD. Known as the Central Park development, the project is being run by Frasers Property Management Australia and will become a sustainable precinct made up of apartments, offices, shops, restaurants and open space.

The Institute signed on to develop a sustainability strategy for the project, collaborating with Frasers and forming a research partnership with Elton Consulting and other consultants to look an innovative sustainability opportunities for this new development.

“Frasers identified early on in the project that their aim was to build a leading edge precinct here on Broadway,” said Professor Stuart White, Director of the Institute.

“As researchers, we undertook a range of investigations to determine how we could incorporate smart design into the building of the development to minimise energy and water use and the production of greenhouse emissions and other waste.”

The Institute’s research outcomes identified energy efficient design, green rooftops, smart metering and solar powered lighting as cost efficient options for minimising energy and water use and reducing the production of waste and greenhouse gas emissions. Institute researchers recommended that the site use recycled water and be run on tri-generation power, a clean alternative to coal power; this will make Central Park the largest urban tri-generation-driven development in the country.
HOW TO APPLY

STEP 1
FIND A RESEARCH AREA
Before you apply, you should investigate the broad range of research activities and projects that our researchers are currently engaged in at UTS.

For more information about UTS Research Strengths, visit: www.research.uts.edu.au/strengths

STEP 2
PRE-ASSESSMENT PROCESS
Some faculties have a pre-assessment stage to the application process. If your proposed area of research falls into one of the following faculties, you are required to complete the pre-assessment form. If you are applying to any of the other faculties, please progress to step 3.

Faculty of Nursing Midwifery and Health: www.nmh.uts.edu.au/research/postgraduate/apply/index.html
Faculty of Engineering and Information Technology: http://forms.uts.edu.au/index.cfm?FormId=196
Faculty of Law: www.law.uts.edu.au/research/postgraduate/apply.html

STEP 3
CHECK YOUR ELIGIBILITY
Check that you meet the eligibility criteria for admission to the research degree that interests you at UTS.

If you are an international student: www.uts.edu.au/international/prospective/about/admission.html
If you are a domestic student: www.gsu.uts.edu.au/policies/admissionspolicy.html or www.handbook.uts.edu.au

STEP 4
FIND A POTENTIAL SUPERVISOR
Begin your search by using the Find a Supervisor tool on the UTS website or contact the relevant faculty or institute.

Find a supervisor: http://datasearch2.uts.edu.au/research/find-a-supervisor

Or

Contact the relevant faculty or institute: www.gradschool.uts.edu.au/contact-us/faculty-contacts.html

If you are an international student please copy internationalresearch@uts.edu.au in your email.

If you are a domestic student and would like assistance with the application process, please send an email to ugs@uts.edu.au

You will need to provide the following information when you contact the faculty or your potential supervisor:

> a brief research proposal which includes your research topic and background of the project. This must reflect your ability to do research
> a current CV/resume
> academic transcripts

In addition, some faculties will require more documentation at this stage. It is best to consult with your faculty directly before you submit your application.

STEP 5
DEVELOP YOUR RESEARCH PROPOSAL
Once you find a potential supervisor you need to further develop a plan for your proposed research. For details on how to develop your proposal: www.research.uts.edu.au/future-students/develop-proposal.html

STEP 6
COMPLETE APPLICATION FORM AND ATTACH NECESSARY DOCUMENTS
After completing the application form, you must attach:
> research proposal
> CV/resume
> certified copies of all your academic transcripts
> certified copies of English Language Proficiency documents if available
> copies of communication with potential supervisor if available

Information on who can certify your documents if you are an international student: www.uts.edu.au/international/prospective/studying/apply/index.html#step3

Information on who can certify your documents if you are a domestic student: www.gradschool.uts.edu.au/pdfs/hdr-application-guidelines2013.pdf

STEP 7
SUBMIT YOUR APPLICATION
Once your potential supervisor has agreed to supervise you and you have completed the application and attached all certified supporting documentation, submit your application form to UTS before the closing dates.

Closing dates for international applications:
30 September (January – March commencement)
31 March (July – August commencement)

International students can send an application to:
UTS International
University of Technology, Sydney
PO Box 123
Broadway NSW 2007
Australia
Or you can submit an application online:
www.uts.edu.au/international/prospective/studying/apply

Closing dates for domestic applications:
Mid October (January – March commencement)
Mid May (July – August commencement)


Domestic students can send an application to:
Graduate Research School
University of Technology, Sydney
P0 Box 123
Broadway NSW 2007
Australia

Or you can submit an application in person:
Graduate Research School
University of Technology, Sydney
Level 7, UTS Tower Building 1
15 Broadway, Ultimo
NSW 2007

**STEP 8**

**APPLICATION OUTCOME**

You will receive an email acknowledgement that your application has been received approximately one week after it arrives at UTS.

The application process normally takes 6-8 weeks. You will receive notification from UTS of your application outcome.

**STEP 9**

**ENROL AT UTS**

Following your acceptance of your offer letter you will receive notification on enrolment procedure at UTS.

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**INTERNATIONAL AND DOMESTIC HDR STUDENTS**

If you are an international student you can find detailed application guidelines:

If you are a domestic student you can find detailed application guidelines:

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**HOW TO LIST PUBLICATIONS**

If you are providing details of scholarly peer-reviewed publications which you have authored, list them using a standard system such as the Harvard Referencing System and ensure you include the information listed below:

www.lib.uts.edu.au/students/discover-your-library/referencing-and-writing/referencing-styles

1. **Author/s** – list all authors in the order that appears on the publication with your own name in **bold**
2. **Year** of publication
3. **Title of article** or book chapter
4. **Journal/book name** or conference proceedings
5. **Volume/issue** of journal article or volume and edition of book
6. **Page number/s**
7. **Publisher and place of publication**
8. **Publication proof** – a URL of the online version of the article or a copy of the front page of the publication OR proof that the publication has been accepted for publication by providing acceptance letter from editor. For conference papers, a copy of the conference program which shows your name as presenter must be provided.

If your publications are not in English, please provide a certified English translation of the title block using the Harvard Referencing System.

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**HOW TO LIST PRIZES**

If you are providing details of prizes which you have been awarded, include:

> **name of prize/award**
> **issuing body** – who issued the prize or award
> **purpose/description** – the reason for the prize or award
> **selection criteria used to judge the prize or award**

If your prize is not in English please provide a certified English translation of the award.
For admission to most higher degree by research programs you are required to hold the equivalent of a relevant master’s or bachelor’s degree with first or second class honours (division 1) and submit a research proposal.

Current academic requirements for international students:
www.uts.edu.au/international/prospective/studying/require/academic.html

Current academic requirements for domestic students:
www.gsu.uts.edu.au/policies/admissionspolicy.html or www.handbook.uts.edu.au

**ENGLISH LANGUAGE REQUIREMENTS**

In order to meet the UTS English language requirements for entry into a UTS postgraduate research course, you must provide evidence of one of the following (this also applies if you were born outside Australia and have recently acquired Australian Citizenship):

- If you have successfully completed a UTS-recognised public or private post-secondary course that was taught in English and was equivalent to at least one year of full-time study, you must provide official documentation from your institution certifying that the medium of instruction was English.
- If your previous education was not in English, you must show evidence of successful completion of one of the English language programs or tests listed in the table below.

**HEALTH COVER**

If you are an international student, you are required to have Overseas Student Health Cover (OSHC) before a student visa will be granted by the Australian Government. It is also a visa condition and your responsibility as an international student to maintain this health cover throughout your stay in Australia. OSHC covers students for emergency medical attention through the public health system. It does not include physiotherapy, optical or dental care, pregnancy, a pre-existing condition or the cost of admission to a private hospital or non-emergency ambulance transport. Extra insurance is available to cover these additional expenses.

<table>
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<tr>
<th>Postgraduate Research</th>
<th>IELTS (Academic Strand)</th>
<th>TOEFL (paper-based)</th>
<th>TOEFL (internet-based)</th>
<th>PTE (Academic)</th>
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<td>All Communication courses</td>
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<td>All International Studies courses</td>
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<td>All Engineering and Information Technology courses</td>
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<td>All Nursing, Midwifery and Health courses</td>
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<td>600 overall with TWE of 5.0</td>
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TUITION FEES
International students must pay tuition fees each semester which vary between courses. For detailed information about tuition fees for UTS courses and the UTS Protocol on Fees and Refunds for International Students studying in Australia:

www.uts.edu.au/international/prospective/studying/fees

STUDENT SERVICES AND AMENITIES FEES
In 2011 the Australian Government passed legislation to allow Australian Universities to have a Student Services and Amenities Fee (SSAF) to support the maintenance of a range of student services at universities. At UTS, the SSAF funds provide support to Students’ Association sponsored activities such as the second-hand bookstore, the UTS Union food, beverage and retail outlets and student clubs, and UTS services supporting skills and language development and the UTS Student Legal Centre.

The SSAF will be applicable for international students from 2014 onwards. You will be required to pay the SSAF in each semester in which you enrol and the fee will be due after the census date of each semester. The SSAF is non-refundable after this date. To give you an estimation of the cost, in 2012 the SSAF is A$131.50 per semester for full-time students (those with a study load of 18 credit points and higher per semester). The SSAF will be subject to an annual government set indexation increase. For further information go to:

www.sau.uts.edu.au/fees/other/service.html

Domestic (Australian and New Zealand citizens and Australian permanent residents) students are eligible for Research Training Scheme (RTS). RTS will pay your tuition fees for the duration of your course. The exception is the Doctor of Project Management (C02051) in the faculty of Design, Architecture and Building. More information about the Research Training Scheme is available from the Department of Innovation, Industry, Science and Research website:

CONTACT UTS

UTS INTERNATIONAL
www.uts.edu.au/international
City campus address
UTS International
University of Technology, Sydney
Level 3a, UTS Tower Building
15 Broadway, ULTIMO

Postal address
UTS International
University of Technology, Sydney
PO BOX 123
Broadway NSW 2007
Australia

GENERAL ENQUIRIES
International@uts.edu.au
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Tel: +61 3 9627 4816
Freecall within Australia:
1800 774 816

APPLICATION ENQUIRIES
International.applications@uts.edu.au
Tel: +61 9514 1531
Fax: +61 9514 1530

UTS GRADUATE RESEARCH SCHOOL
www.gradschool.uts.edu.au
City campus address
Graduate Research School
University of Technology, Sydney
Level 7, UTS Tower Building
15 Broadway
ULTIMO NSW 2007
ugsi@uts.edu.au
Tel: +61 2 9514 1336
Fax: +61 2 9514 1588

Postal address
Graduate Research School
University of Technology, Sydney
PO Box 123
Broadway NSW 2007
Australia

UTS CRICOS PROVIDER CODE: 00099F
INSEARCH CRICOS PROVIDER CODE: 00859D

The University of Technology, Sydney (UTS ) has used its best efforts to ensure that the information contained in this guide was correct and current at the time of publication. The information is provided in good faith as a guide and resource for new students. UTS accepts no responsibility for any error or omission. Any information contained in this guide is subject to change from time to time. You are advised to check the accuracy and currency of the information with the relevant faculty or unit within UTS, or with the relevant external organisation, before acting upon the information.