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http://www.uts.edu.au/research/expertise
FACULTIES

FACULTY OF BUSINESS
The Faculty of Business provides courses which are practical and industry relevant, conducts quality applied and basic research, and produces forward-thinking, work-ready graduates who enjoy above-average rates of employment in the business and community sectors. The Faculty of Business is the largest of the nine faculties within the University, and conducts courses on two fully-serviced university campuses in Sydney. The Faculty is international in orientation and student mix and delivers offshore courses through partnerships with leading institutions in China, Indonesia, Malaysia and Thailand.

Mission
UTS Business: forward-thinking, work-ready.

Vision
UTS Business: the place people turn to for:
• industry-relevant courses
• a collaborative, research-rich environment
• vibrant, diverse, fully-serviced, city-based educational campuses, and
• informed commentary on relevant community debates.

Core values
The Faculty’s core values are:
• collegiality and respect for staff, students and stakeholders
• industry relevance
• an ethical environment
• engagement with professional communities
• continuous quality improvement
• social diversity, and
• efficiency and focus of activities.

In 2005, the Faculty established an Executive Council to provide advice and guidance with respect to achieving its strategic objectives. The Executive Council comprises eminent industry leaders who provide an external perspective with regard to the Faculty’s activities and provide a central link with the business community.

Over the course of the next decade, the Faculty aims to position itself in the top one third of Australian business faculties with regard to research outcomes; as the university faculty of first choice in New South Wales for business and related students; as a preferred provider to employers seeking forward-thinking, work-ready graduates; as being engaged in successful international educational partnerships; and as a key contributor to contemporary community debates relevant to the Faculty.

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FACULTY OF DESIGN, ARCHITECTURE AND BUILDING
The Faculty of Design, Architecture and Building is committed to providing an environment which encourages a high sense of purpose, superior performance and a vision for national leadership in the areas of design, architecture, building and property education. The Faculty aims to provide opportunities for education, training and research in accordance with international best practice and highest standards of management.

The Faculty has individual expertise and can offer supervision in a number of areas. Specific research strengths include: design history, sustainable design, theory and practice in design, design education, fashion history, history and theory of modern and contemporary architecture, sustainability in architecture, urban studies, property markets, cycles and forecasting, socioeconomic implications of property, soft project management, sustainable building technology, earth building and construction management.

To develop a cutting-edge research culture, the Faculty enhances knowledge, innovation and excellence in the industries and its research has achieved an impressive national and international profile.

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FACULTY OF EDUCATION
The Faculty of Education offers courses that prepare students for professional practice in the full range of educational contexts: primary and secondary teaching, vocational education, language literacy and numeracy education, Aboriginal education and human resource development. The Faculty is also active in research with a focus on learning and change which underpins the teaching and learning in the Faculty’s courses.

The Faculty’s adult education area is one of the largest in the world with many academics involved in a variety of fields. On offer are a Bachelor of Education in Adult Education and a range of Graduate Diplomas in Vocational and Workplace Learning, Literacy and Numeracy, and in Teaching English to Speakers of Other Languages (TESOL). The Faculty also offers the innovative Bachelor of Arts in Organisational Learning degree that addresses the increasing need for professionals who can manage the learning and change process in organisations. This course includes subjects from both the Faculty of Education and Faculty of Business.

The Teacher Education courses include the Bachelor of Education in Primary Education that has a strong practice orientation with practicum teaching in every semester of every year. The Faculty has also recently developed a new graduate-entry secondary course: the Bachelor of Teaching in Secondary Education (BTeach) with specialisations in English, mathematics, personal development, health and physical education, science, technology and applied studies, visual arts, business studies and a number of mixed specialisations. The BTeach is an accelerated program enabling graduate students to complete the course in one year of study.
The Faculty’s Master’s courses include the Master of Education or Master of Arts courses with majors in Education, Adult Education, e-Learning, TESOL and Applied Linguistics, and the Master of Arts in Music Therapy.

The Faculty’s distinctive research focus, Research in Learning and Change, is divided into two research clusters: Changing Practices and Designs for Learning. The focus of the Changing Practices cluster is researching practice as it occurs in many different settings – in work and the professions, in education and in social and cultural settings – and the ways in which practice is changing. The focus of the Designs for Learning cluster is the mediation of learning – the designs, interactions and interventions and the different contexts that shape learning. The Faculty also has approximately 180 research students in the Master of Education (Honours), Doctor of Education and Doctor of Philosophy research degrees.

In addition, the Faculty runs short courses for industry professionals through the Training and Development Services (TDS) unit. These courses include: Certificate IV in Training and Assessment, the Diploma of Business (Frontline Management), and Diploma of e-Learning.

The Faculty is situated on two sites: adult, vocational and language and literacy education and TDS at City campus, in the central area of the city, and schoolteacher education and music therapy on the North Shore at UTS’s Kuring-gai campus, set at the edge of a national park, 20 minutes from the city centre.

The Faculty is distinguished by its global operations and its commitment to internationalisation. The Faculty has a history of running offshore courses and projects in a variety of locations including Hong Kong, Japan, Kuwait, Laos, Mexico, Oman, Vietnam and mainland China. In addition, teaching experience practicums in the primary course are offered in China, Samoa and Thailand.

The Faculty also draws on expertise from other areas of UTS in its combined degrees and continues to explore further ways for students to benefit from the richness and diversity UTS offers. With the Institute for International Studies, the Faculty offers three combined degrees: Bachelor of Education Bachelor of Arts in International Studies; Bachelor of Education Bachelor of Arts in International Studies; and Bachelor of Arts in Organisational Learning and in International Studies.

The Faculty is known for its flexible modes of delivery and many of the Master’s courses are available through distance mode and other courses through a blend of distance, block and weekly attendance. Web-based conferencing tools through UTS Online support all the distance courses and subjects.

**Research in Learning and Change**

The focus of the Research in Learning and Change group is the investigation of the ways in which learning influences and is influenced by changes in educational institutions, workplaces, organisations and communities. The Faculty’s research aims to produce knowledge and practices to enhance learning, to promote more productive organisations and build more effective communities. At the heart of this research endeavour is to understand how learning responds to change, how learning is changing, and how change is embedded in and constructed by cultural and communication practices.

Central to the capacity to change is the ability to learn, not just to have learned well in educational institutions, but to keep learning and to be ready to learn again. Governments, business, communities, professional bodies and special interest groups increasingly invoke learning as a key strategy in understanding and facilitating social, cultural, environmental and economic responses to the numerous challenges presented by post-industrialisation and advances in technology, particularly in information and communication technologies.

The Faculty’s research programs are undertaken in two related research clusters – Changing Practices and Designs for Learning.

The research activities are embedded in nine broad research programs:

- **Organisational communication and culture:** this research program undertakes research into the issues of cultural difference and communication in the workplace.
  
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- **Learning practices and workforce development:** this research program focuses on the learning dimensions of work and the practices that promote learning within organisations.
  
  email David.Boud@uts.edu.au

- **Language and communication in learning:** this research program investigates the role and significance of language and communication in learning in school, post-school and non-school settings.
  
  email Pauline.Gibbons@uts.edu.au

- **Reframing skill and capability:** this research program examines the changing ways in which skills, knowledge and competence are understood and enacted both within workplaces and in education and training organisations.
  
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- **Professional formation and development:** this research program is concerned with all stages of the formation and development of those who have professional roles in society.
  
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- **Learning, teaching and development:** this research program examines the relationship between teaching and learning in educational settings and the affordances of this relationship.
  
  email Peter.Aubusson@uts.edu.au

- **Building learning communities:** this research program centres on the learning and learning support necessary for the development of ‘learning communities’. While acknowledging that communities are constituted by individuals this program focuses specifically on identifying, analysing and encouraging community advancement.
  
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- **Discourse and cultural practices:** this research program focuses on the changing discursive and cultural practices in different sites of learning and social activity.
  
  email Alastair.Pennycook@uts.edu.au

- **Learning and learning support in the digital age:** this research program examines how learning occurs and how it might best be supported in newly possible, technologically-rich designs and spaces.
  
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FACULTY OF ENGINEERING

The mission of the Faculty of Engineering is to be the Australian leader, and among the world leaders, in practice-based engineering education and research. The Faculty’s researchers are world-class and recognised leaders in their fields, responsible for delivering new, better and more cost-effective solutions to complex engineering challenges.

The Faculty of Engineering has a lively and cutting-edge research culture, driving advances in engineering technology, practice and education. The Faculty’s research is needs-driven and collaborative and it works with many companies in business partnerships.

The Faculty is structured into four interdisciplinary academic groups. These groups are:

- Information and Communication
- Infrastructure and the Environment
- Management, Policy and Practice
- Mechatronics and Intelligent Systems.

In addition, the Faculty has a number of Key University Research Strengths and supports several centres which provide research in engineering and related fields. These include:

- ARC Centre of Excellence for Autonomous Systems
- Centre for Electrical Machines and Power Electronics
- Institute for Information and Communication Technologies
- Institute for Water and Environmental Resource Management
- Institute for Nanoscale Technology
- KURC for Built Infrastructure Research
- KURC for Health Technologies
- The UTS University Research Group for Intelligent Mechatronic and Energy Systems.

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FACULTY OF HUMANITIES AND SOCIAL SCIENCES

The Faculty of Humanities and Social Sciences has a national and international reputation for dynamic, innovative and interdisciplinary academic programs in communication, media, information and social science, a distinction gained through its longstanding commitment to providing the highest quality education and training, and its encouragement of advanced scholarship and research.

The Faculty aims to provide rigorous professional and disciplinary education relevant to the media, communication and information industries in a critical context, which enables graduates to understand the social, cultural and economic environment in which these industries and professions operate.

The Faculty places a high value on creativity and problem-solving; the development of research skills; convergences between fields of practice; social advocacy and community service; and contribution to public debates concerning relevant social and political issues.

Supporting a lively research culture, the Faculty is committed to the creation of knowledge and excellence in the humanities and social sciences. Faculty research strengths include cultural studies, creative writing, public history, journalism, sound and image studies, communication and information studies, social theory, social policy research, and Trans/forming Cultures – a Key University Research Centre which explores the ways ‘narratives of the local’ are undergoing transformation in a global context.

There are seven centres associated with the Faculty, which are dedicated to professional excellence and scholarly research in the fields of journalism, public history and public communication. These are:

- Australian Centre for Independent Journalism
- Australian Centre for Public Communication
- Australian Centre for Public History
- Centre for Media Arts Innovation
- Centre for Social Inquiry
- Key University Research Centre in Communication and Culture – Trans/forming Cultures
- Centre for New Writing.

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FACULTY OF INFORMATION TECHNOLOGY

The Faculty of Information Technology has a firm and ongoing commitment to the importance of lifelong learning in the IT professions. Collaborative industry links ensure that its programs are practically oriented as well as theoretically sound.

The Faculty continues to build its relationships with industry, business, the professions, government and the community. Our industry partners play a key role in helping to shape and advise on many of the programs offered. Some programs are developed to provide leading-edge expertise in areas of emerging IT importance, while others are developed in direct response to expressed industry needs.

The Faculty’s undergraduate courses provide a sound education in all aspects of computing and information technology, adopting a practice-based approach to information and communication technologies (ICT) education with a mix of theory and practice. As well as gaining strong technical skills in ICT, students gain skills in problem-solving and teamwork and may elect to undertake the industry training program during which they are exposed to real ICT problems and are able to apply classroom learning on the job.

The Faculty’s postgraduate coursework programs are designed to satisfy various career development needs, ranging across ICT management, technical specialisations, emerging technologies and advanced topics in ICT. ICT professionals can update their skills in areas such as internetworking (including coverage of the requirements for CCNA and CCNP), network security, mobile and wireless computing, computer graphics and gaming, data mining, e-business technology, human-centred design, organisational systems and software engineering. Alternatively, they can seek preparation for advancement into strategic management, project management, software development methodology and software quality.

The Faculty has considerable experience in developing and delivering specialised short courses in response to industry needs and requests from individual corporate clients. In-demand courses such as SQL, C#, .NET, Java and J2EE are offered and a new course in IP Telephony and Voice over IP (VoIP) will be introduced for 2007.

The Faculty’s strategic priority is to significantly boost its research profile. It has been very successful in terms of attracting increased research funding from the Australian Research Council (ARC) and in the enrolment of record numbers of PhD students. In 2006 the Faculty had the most ARC projects of any similar faculty across Australian universities. The Faculty is an active participant in the Capital Markets Cooperative Research Centre and the Australian Cooperative Research Centre for Interaction Design. A new research strength was established in 2006 in the area of e-health. The research in this area is rapidly expanding and will continue to develop for 2007.

The Faculty has a strong research profile in a number of fields, including distributed knowledge and intelligence, human-computer systems, IT education research, networking and mobility, software engineering and visual information processing. In addition, these play a central role in the Faculty’s participation in the Institute for Information and Communication Technologies and the Visual Information Processing Group.

The following specific-purpose research laboratories are also supported by the Faculty:
- access grid node
- collaborative systems
- creativity and cognition studios
- graphics
- internetworking.

The Faculty also continues to develop its capability and capacity to deliver high quality teaching and learning. In 2006, the Faculty was successful in being awarded three Carrick Institute Grants, to a total of almost $600,000, to aid cross-institutional projects that support effective teaching and learning spaces. Dr Kevin Suffern, a senior lecturer in the Faculty, also received a Carrick Institute citation for his teaching.

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FACULTY OF LAW

The Faculty of Law’s academic aims are to:
- offer law courses with a strong professional core and relevance to practice
- emphasise the development of professional skills complementing substantive law offerings
- accommodate the needs of mature-age students, particularly those in employment.

The Faculty’s research aims are:
- the advancement of knowledge in the field of law and legal education
- the fostering of an environment that promotes excellence in academic research and the pursuit of excellence in legal research
- the conduct of legal research of the highest order that has direct relevance to the needs of the legal profession, government agencies and the general community
- the conduct of research of social and scholarly importance
- the conduct of research that emphasises innovation and excellence in practice.

Research strengths

Research strengths of the Faculty are:
- Asian law
- banking and finance law
- bioethics
- constitutional law
- corporate governance
- criminal law
- dispute resolution
- environmental law
- European Union law
- industrial and intellectual property
- international environmental law
- international law
- international trade law
- migration and refugee law.
FACULTY OF SCIENCE

The Faculty of Science is committed to providing the highest quality undergraduate and postgraduate education and training to meet the needs of industry and science. The Faculty engages in research and allied professional scientific activities to bring economic and social benefits to the Australian and international community.

The Faculty has established a sound tradition of providing quality teaching, research and consultancy. The Faculty's courses are highly respected for their relevance, skills and research training, and for their professional focus, and graduates are renowned for their work-readiness and adaptability and are highly regarded by employers.

The Faculty has a strong research culture and is proud of its history in teaching and researching innovative science. It has a strong record of research and development, essential to the strength of both undergraduate and postgraduate programs. The research courses focus on applied and practical research to bring about benefits to industry and the community. The Faculty has strong links with industry, which supports its research objectives. The Faculty wins a substantial part of the competitive grants awarded to the University, dispersed across a wide range of expertise including the UTS Centres of Expertise, Research Institutes, Key University Research Strengths and Faculty Research Strengths listed below.

The five centres are:

- Proteomics Centre of Expertise
- Computational Research Support Unit
- Centre for Expertise in Chemical Technologies
- Centre for Expertise for the Environment
- Microstructural Analysis Unit.

The Faculty participates in the following UTS Research Institutes:

- Institute for the Biotechnology of Infectious Diseases
- Institute for Nanoscale Technology
- Institute for Water and Environmental Resource Management.

The Faculty's Key University Research Centres are:

- Key University Research Centre for Health Technologies
- Key University Research Centre for Quantitative Finance Research.

The Faculty also hosts the ARC Centre of Excellence for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS). This Centre is a joint venture between five University partners with nodes in Sydney, Canberra and Melbourne. The Centre undertakes world-class fundamental research in: non-linear photonics, positioning the Centre in the top five groups in the world, and leading to new-generation, ultra-fast photonic devices built upon world-class research; social benefits of improved access and linkage to telecommunications; new photonic companies, built on a portfolio of CUDOS IP and strong links to the Centre; and the skills necessary to sustain a vibrant industry, produced by state-of-the-art undergraduate education and training programs, and professional research and engineering skills developed through involvement in CUDOS research activities.
Designated University Research Groups are in the areas of:
- forensic science
- photonic crystal technology.

Other Faculty research strengths are:
- ecotoxicology
- experimental design and data analysis
- applied physics, including image processing and analysis
- applied chemistry
- mathematics and statistics
- computational number theory
- wave theory
- scheduling theory
- numerical integration
- gene therapy
- immunology
- microbiology
- psycho-oncology
- marine studies
- horticulture
- medical and biomedical science
- neurotoxins
- traditional Chinese medicine.

Additionally, the Faculty has a large number of research centres and units dedicated to furthering knowledge and finding solutions to scientific problems.

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OTHER ACADEMIC UNITS

ELSSA CENTRE
ELSSA, the UTS centre for academic and professional English, is an academic support unit. The Centre was set up in 1989 and provides free academic language development programs to students who complete their degree in English.

The main aim of the ELSSA Centre is to enhance teaching and learning at UTS through a focus on academic literacy, which involves reading, writing, listening, speaking, critical thinking and cultural knowledge. The Centre achieves this aim by:
- collaborating with faculties to integrate the development of students’ academic literacy in their areas of study
- teaching custom-designed programs to meet the specific requirements and changing needs of undergraduate and postgraduate UTS students and staff
- fostering interest in, and knowledge of, literacy and learning through research and development
- valuing quality, diversity, internationalisation and flexibility as it serves the wider academic and professional communities, and
- organising and/or facilitating activities and events aimed at promoting the internationalisation of the curriculum.

Current research and development projects of the Centre include overall responsibility for monitoring language-related educational issues across UTS, postgraduate supervision development with the University Graduate School, and faculty-based development and evaluation of integrated academic and professional literacy programs.

The Centre also offers the Advanced Diploma in Australian Language and Culture to international and exchange students.

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**JUMBUNNA INDIGENOUS HOUSE OF LEARNING**

Jumbunna Indigenous House of Learning (Jumbunna IHL) is committed to improving the quality of educational experience for Australian Indigenous students at UTS. It was first established in 1987 as Jumbunna CAISER and as an Aboriginal Student Support Centre. Today, Jumbunna IHL has a wide-ranging, long-term agenda which includes:

- improving accessibility, retention and graduation rates of Australian Indigenous students at UTS
- broadening awareness and acceptance of Australian Indigenous cultures, achievements, contributions and contemporary issues by assisting the development of appropriate teaching subjects and awards
- enhancing the teaching and coordination of postgraduate studies in Indigenous studies
- broadening economic, social and political opportunities for Indigenous Australians, in particular expanding employment and income opportunities
- involving Australian Indigenous people in institutional decision-making and consultative structures, academic policy development and curriculum, and strengthening partnerships between Jumbunna IHL and UTS faculties, schools and centres, and
- providing consultancy services to community, government and the private sector.

Jumbunna IHL also includes a Research Unit which, since 2002, has developed a national profile with a focus on issues that support the advancement of Australian Indigenous peoples and communities. The Unit attracts Indigenous scholars and researchers from across the globe and offers a stimulating intellectual environment for research degree studies. The Research Unit strives to inform public policy areas and in formats that are accessible to Australian Indigenous communities.

Jumbunna IHL also contributes to the Board of Studies for Indigenous Education to guide the development of Indigenous courses across the University.

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**INSTITUTES**

**INSTITUTE FOR INTERACTIVE MEDIA AND LEARNING**

The Institute for Interactive Media and Learning (IML) works in three major areas: enhancement of teaching and learning through work with faculties and individual academic staff; development and maintenance of the UTS website; and teaching postgraduate courses in interactive multimedia and e-learning.

IML’s work in teaching and learning focuses on improving assessment practices, including the provision of feedback to students as well as the prevention and detection of plagiarism. A second area of focus has been on enhancing students' experience of groupwork. IML has also continued to lead developments in e-learning across the University and offers the Graduate Certificate in Higher Education Teaching and Learning as well as the program for new academic staff. Academic staff of IML undertake research in areas which support the work of the Institute and the University.

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**INSTITUTE FOR INTERNATIONAL STUDIES**

For information about the Institute for International Studies, see Chapter 4 of this Calendar.
INSTITUTE FOR SUSTAINABLE FUTURES

The Institute for Sustainable Futures was established as a flagship, transdisciplinary, research institute in late 1996 and commenced operations at the Australian Technology Park in March 1997.

After eight years at the Australian Technology Park, the Institute moved to the redeveloped UTS Building 10 at City campus. The Institute creates change towards sustainable futures through independent, practical research and consulting based on knowledge leadership. The Institute’s project-based research helps people and organisations move towards a preferred future. In particular, the Institute:

• helps governments to develop policy that supports sustainable development
• works with industry to create and implement sustainable strategies and operations, and
• assists community groups to articulate and support views on sustainability issues.

Since its establishment, the Institute has completed more than 170 research projects, interpreting, designing and recommending effective solutions to clients ranging from small NGOs, commercial firms and local government, to Australia’s largest utilities, and government agencies in Australia and internationally. The Institute brings a range of usable, forward-thinking tools and skills to organisations to help them plan and implement sustainability goals. Such tools and skills include backcasting, evaluation, innovative community engagement mechanisms (such as citizen juries), economic assessment and the use of market-based instruments, sustainability assessment frameworks and indicator development.

The Institute's researchers are frequently invited to national and international conferences, have published more than 140 papers and book chapters and have conducted scores of workshops, training sessions and forums within Australia and overseas.

The Institute was the first institution in the world to award a PhD in Sustainable Futures. The Institute’s postgraduate program uses dynamic and reflective strategies to help students develop critical thinking skills and to promote the cross-fertilisation of knowledge, processes and ideas across diverse fields. The Institute’s Master’s and Doctoral research degree programs are open to both local and international students.

The Institute conducts seminars, workshops and training courses to promote ideas and to encourage critical discourse among government, corporate, academic, industry and community leaders.

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UNIVERSITY RESEARCH INSTITUTES

INSTITUTE FOR THE BIOTECHNOLOGY OF INFECTIOUS DISEASES

The Institute for the Biotechnology of Infectious Diseases (IBID) is a unique research institute in the Australian landscape. Its mission is to deliver the highest quality scientific research product on the biology of infectious disease, improving diagnosis and control in humans and livestock. Its current focus is on diseases caused by parasites.

IBID develops and uses cutting-edge technologies in genomics, proteomics, gene expression and metabolic profiling to make fundamental discoveries on the molecular basis of how parasites and bacteria:

• recognise hosts and establish infection
• grow and reproduce, and
• adapt to changes in their environment.

This fundamental, pure science is an outstanding vehicle for research training but also provides the building blocks for formulating new molecular targets for the control and detection of pathogens.

IBID is home to an exceptional array of experts dedicated to solving important research and technology issues in the field of infectious disease in Australia and overseas. IBID researchers have a unique record of delivering innovative, practical solutions to real problems through an integration of basic, strategic and applied research programs. Collaborative research is a feature of IBID; it has formed significant strategic partnerships locally, nationally and internationally with business and industry, government, professional bodies, community organisations and other universities and research institutes. Partnership and investment opportunities exist at all stages of research, from pure basic, to strategic, to applied. Opportunities also exist in IBID for research students to enhance their skills and refine their expertise in a unique and highly professional and stimulating environment.

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INSTITUTE FOR INFORMATION AND COMMUNICATION TECHNOLOGIES

The Institute for Information and Communication Technologies undertakes broad-based research in information and communication technologies (ICT). It builds on substantial existing research strengths within UTS by focusing on themes that align with national priorities and projects that have demonstrated industrial potential.

The Institute’s objective is to contribute to the solution of real-world problems, whether through participating in the evolution of new technologies or through contributing innovation. The research programs are directed by the needs of a networked world and knowledge-based society. The Institute looks to the market to identify research opportunities and priorities.
The Institute aims to provide a vibrant research environment for training the outstanding young applied scientists that the ICT industry needs to become a global player. It builds on its links with industry to facilitate collaborative research projects and the creation of subsequent commercial opportunities.

The research program currently focuses on three broad themes:

- communications and networks
- smart e-business
- socio-technical change.

Within these themes, groups are working in such areas as:

- communications services (which includes everything from network protocols to network management)
- tele-collaboration
- programmable service architectures, protocols and control mechanisms for supporting quality of service of applications across the Internet
- e-intelligence research focusing on data mining and multi-agent systems
- smart negotiation systems
- e-service evaluation and online group decision support systems.

A growing number of these areas receive support from industry.

The Institute supports emerging research groups (as associates of the Institute), primarily from within and across the faculties of Engineering and Information Technology. It also has a close involvement with University initiatives in new media and digital culture, and in learning and interactive media.

In addition to supporting research through the appointment of research staff to projects, the Institute is eager to attract high-quality research students to work on Institute programs. To this end, it provides PhD scholarships and supports research students through research training opportunities, master class sessions and seminars. It has an active visitor program, sponsors creative workshops identifying new research opportunities and seeks to engage with external organisations in research activities within its areas of interest.

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INSTITUTE FOR NANOSCALE TECHNOLOGY

The Institute for Nanoscale Technology provides an interdisciplinary research focus for nanotechnology research at UTS, building on existing capabilities and expertise. Nanotechnology is only just beginning to have an impact on our society, being currently at a similar level to that of computer chips in the early 1970s, but over the next 10 to 15 years it will have a profound effect.

The Institute has three major research programs: applying nanotechnology to optically functional systems; applying nanotechnology to biotechnology and biological materials; and using state-of-the-art microscopy equipment to image and manipulate matter at the nanoscale.

Optically functional systems

The first of the three research themes is focused on spectrally selective or photo-active coatings and devices. This theme harnesses a rich resource of prior expertise at UTS in the fields of architectural physics, spectrally selective coatings and optics, and combines these with the latest technologies of metallic nanoparticles, coatings and photo-active organic molecules. This strand of research has its historical roots in the fact that Australia’s climate has created a large market for solar glazing products and that such products developed in the northern hemisphere are not ideal for warmer conditions. However, this activity has grown at UTS to include a holistic interest in all spectrally selective or functional nanomaterials and mesostructures and the Institute’s aim now is to develop a world-class centre of excellence in this subject.

Nanotechnology with proteins

Individual living cells are generally of the order of a few micrometers in diameter and hence are not nanoscale objects in their own right. However, the structures within the cell and cell membrane are certainly nano-sized. Of course, there is a large research effort around the world devoted to living cells and biology in general. The Institute has elected to focus on the very much narrower twin topics of ion channel proteins as inserted into artificial lipid membranes and gold–protein interactions. In each case the objective is to identify interesting and useful systems and applications. However, the topics are not disjunct and already conjoin in various commercial concepts for nanotech biosensors, for example the pioneering AMBRI biosensor developed in Australia.

Characterising the nanodomain

UTS took the initiative more than a decade ago to establish a top-quality Microstructural Analysis Unit (MAU). The Unit has grown from strength to strength and is now a key contributor to the research conducted by the Institute. An unusual aspect of the MAU has been the decision to concentrate on scanning electron and probe microscopy in order to provide a world-class capability in these designated areas, while opting to outsource all transmission electron microscopy (TEM). However, the nearby University of Sydney has state-of-the-art TEM facilities and UTS is linked to some of these instruments by joint grant arrangements. This networking mode extends to many of the research projects being conducted in the MAU and to collaborative research with diverse entities, both local and overseas. Another aspect of UTS’s quest to develop a robust competency in the characterisation of the nanodomain has been the rapid development
and implementation of various state-of-the-art codes and schemes to model nanoscale structures. This closely coupled combination of microscopy and modelling has provided UTS with a unique position with respect to nanoscale science and engineering.

**Nanotechnology education**

UTS offers an excellent undergraduate course in nanotechnology and is also a popular choice for postgraduate studies in applied nanoscience and technology for both engineering and science graduates.

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**INSTITUTE FOR WATER AND ENVIRONMENTAL RESOURCE MANAGEMENT**

The Institute for Water and Environmental Resource Management (IWERM) is a transdisciplinary institute for collaborative research and consultancy within the field of environmental resource management. Both biotic and abiotic components of the landscape, and their interactions, are encompassed.

The Institute is engaged in research and consultancies in the following key areas:

- groundwater, vegetation and salinity interactions
- plant and animal ecology
- groundwater modelling
- ecotoxicology
- water resource management in rural and urban landscapes
- wastewater engineering.

IWERM is engaged in research aimed at improving our understanding of, and management options for, water and ecosystem resource management. In addition, IWERM provides transdisciplinary capabilities to consultancies for industry and government agencies.

Collaborative teams underpin the Institute’s activities. Research teams of ecotoxicologists interact with groundwater modellers. Teams of ecologists and ecophysiologists pursue collaborative research projects with hydrologists. This allows the Institute to tackle real-world problems in environmental science and resource management.

Closely coupled with its research strengths is a commitment to industry-relevant research. Examples of this can be found on the Institute’s website.

The following PhD and MSc programs are linked with IWERM and are indicative of the Institute’s current activities:

- tree water use, salinity and groundwater-vegetation interactions
- impacts of salinity on biodiversity
- ecotoxicological studies of endocrine-disrupting compounds from sewage treatment plants
- ecotoxicological studies of urban stormwater runoff
- groundwater modelling
- modelling of optimum groundwater allocations
- rehabilitation of hazardous waste landfills
- contaminant transfer
- wastewater treatment using a floating medium flocculator/ filter system
- greywater use
- sustainable yield of aquifers.

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KEY UNIVERSITY RESEARCH CENTRES

CENTRE FOR HEALTH ECONOMICS RESEARCH AND EVALUATION

The Centre for Health Economics Research and Evaluation (CHERE) is a Key University Research Centre and an internationally recognised centre of excellence in health economics and health services research. CHERE moved to UTS in 2002 as a joint initiative of the UTS faculties of Business, and Nursing, Midwifery and Health, in collaboration with the Sydney South West Area Health Service. CHERE’s research in health economics and health services is concerned with the use, access, costs and outcomes of health services; the organisation and financing of health care; alternative and innovative health care delivery programs; health outcomes and the quality of life; and health workforce issues. A research team at CHERE was the first to be awarded a multimillion dollar National Health and Medical Research Council Program Grant in health economics and health services research.

Involvement in policy development and analysis is an important activity and CHERE regularly receives commissions to conduct research and advise government. Through a Visiting Scholars program, CHERE brings many eminent researchers to Australia to share research skills, build collaborative research links and participate in the Distinguished Lecture series. CHERE staff are involved in a number of international health policy networks and collaborations.

CHERE provides opportunities for postgraduate research in health economics and health services research. Staff teach courses in the faculties of Business, and Nursing, Midwifery and Health.

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CENTRE FOR THE STUDY OF CHOICE

The Centre for the Study of Choice (CenSoC) is a cross-disciplinary initiative of the School of Marketing (in the Faculty of Business) and the Department of Mathematical Sciences (in the Faculty of Science). CenSoC is co-directed by Professor Jordan Louviere in the School of Marketing and Professor Deborah Street in the Department of Mathematical Sciences. It was first established as a University Research Group in 2002 and was recognised as a Key University Research Centre in February 2006. The overarching objective of CenSoC is to better understand and predict individual and group decisions and choices, including the decision and choice processes of managers, organisations and consumers.

CenSoC uses tools from econometrics, mathematics/statistics, marketing and psychology to build mathematical models of consumer and firm decision-making behaviour. These models can be used to predict how consumers or firms will respond to changes in the environment they face. A prime example is prediction of market shares for new products introduced into markets and changes in market shares for existing products if their prices or other attributes are changed.

CenSoC is an academic leader in decision-making and choice behaviour study. It has a critical mass in basic research and applications of the science of choice with unique breadth and depth of expertise and experience. There are no similar centers in other universities in the world.

CenSoC’s primary research areas are:

- basic/applied choice research that leads to better consumer and managerial decisions and choices, and better methods for new product development
- theory and methods that provide new ways to study, model and improve managerial and consumer decision and choice processes, and
- applications that use existing/new theory and methods to solve significant practical problems.

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KEY UNIVERSITY RESEARCH CENTRE FOR BUILT INFRASTRUCTURE RESEARCH

The Centre’s mission is to develop, at UTS, Australia’s leading Centre for Built Infrastructure Research by:

- linking researchers from the faculties of Engineering, Science, and Design, Architecture and Building to form a multidisciplinary team with a comprehensive range of expertise and research facilities to tackle projects of national importance
- undertaking collaborative research and development projects with industry, and forming collaborative partnerships with leading Australian and international research organisations
- expanding the opportunities for UTS researchers to participate in leading-edge research related to new technologies and management practices aimed at developing and sustaining built infrastructure assets
- creating an environment conducive to training the highest calibre of research students engaged in research areas of national and international significance
- attracting funding through research contracts, high-level consultancy and competitive internal and external grants and presenting the outcome of research through reputable conferences and leading engineering journals
- commercialising some of the Centre’s research outcomes to increase the pool of funds available for further research and development and to make the research outcomes and benefits available to the wider community.

The main objective of the Centre is to become a centre of excellence, capable of responding to evolving needs of industry and the community in a discipline area with major impact on the nation’s economy and welfare. In addition to raising the profile of built infrastructure research at UTS, the Centre aims to become the first choice provider of research and development services to industry.
The current and proposed research projects to be undertaken by the Centre show that both fundamental and needs-driven research, related to infrastructure issues, rely on multidisciplinary approaches. One of the guiding principles that underpins the work of this Centre is that high-quality research which targets substantive issues must incorporate the relevant breadth of intellectual competencies and research experience. Furthermore, as experimental and laboratory-based investigations play a pivotal role in infrastructure-related research, it is essential to have access to research facilities which mirror the multidisciplinary nature of such work. The Centre enables researchers to have access to a comprehensive network of complementary laboratory and research facilities. Many of these facilities have unique features which are second to none, not only in Australia but also in the Asia-Pacific region.

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KEY UNIVERSITY RESEARCH CENTRE FOR CORPORATE GOVERNANCE

The Key University Research Centre for Corporate Governance brings together researchers from accounting, finance, management and legal backgrounds to provide a comprehensive, interdisciplinary approach to one of the most critical problems faced by organisations in both the private and public sectors. Corporate governance is the system by which corporations are directed and controlled. The corporate governance structure and processes specify the distribution of rights and responsibilities among different participants in the corporation, such as the board, managers, shareholders and other stakeholders. The aim is to align as nearly as possible the interests of individuals, corporations and society.

The key issues examined by the Centre include financial aspects of corporate governance, directors’ duties and the role of the board, corporate governance and performance measurement, comparative corporate governance across countries and regions, and corporate governance and legal, regulatory and ethical accountability.

The Centre is engaged in major research projects with industrial and professional partners, teaching and curriculum development, academic publications and conferences, and is also dedicated to policy development and legal reform. The Centre is also involved in professional consultancy, the provision of short courses and in the improvement of practice. The Centre has good international links with other research bodies examining the reform of corporate governance worldwide.

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KEY UNIVERSITY RESEARCH CENTRE FOR HEALTH TECHNOLOGIES

Continued advances in health care and quality of life in the future will come from new knowledge and innovative scientific/technological breakthroughs. The Centre’s research team has extensive national and international reputations in the field of health technologies. It brings together complementary interdisciplinary research skills unique in Australia in the development of innovative medical devices and biotechnology processes for health technology applications.

Innovative medical device technologies and biotechnology/biopharmaceutical research programs within the Centre are currently at the cutting-edge of biomedical engineering and biotechnology science. Its researchers have already developed, or have been involved in the development of, several significant biomedical devices and advanced biotechnology processes, each of these has already created strong impact and presents an outstanding potential to contribute to national and international markets. Examples of these are VentriAssist blood pump, non-invasive low blood sugar monitor (HypoMon), insulin-secreting glucose-responsive liver cell lines, Mind Switch, chimeric monoclonal antibody for the treatment of multiple myeloma, microwave ablation of atrial fibrillation and microwave imaging of breast cancer, and diagnostic test for diabetic retinopathy using nanotechnology.

The focus of the group is on the study of health and disease processes and the development of new medical devices and advanced biotechnology applications for early detection, diagnosis, treatment and rehabilitation of lifestyle diseases such as cardiovascular disease, diabetes mellitus, neurological disorder and cancer.

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KEY UNIVERSITY RESEARCH CENTRE FOR INNOVATIVE COLLABORATIONS, ALLIANCES AND NETWORKS

The mission of the Key University Research Centre for Innovative Collaborations, Alliances and Networks (ICAN Research) is to foster, develop and disseminate high-quality conceptual and empirical research on organisational practices, research which is discipline-grounded but interdisciplinarily informed. ICAN Research is pluralist theoretically, acknowledging a diversity of approaches to vital questions addressed to the performance of organisations in shaping business, government, markets and civil society. The Centre strives for research excellence.
in developing innovative knowledge for successful organisation performance and advances basic theory regarding organisational practices which are converted into applied general management intelligence to help solve organisational challenges.

The Centre’s aims and objectives are to:

- undertake joint research with industry as well as basic research, run practitioner-relevant workshops, consult, recruit and train outstanding research students and researchers, publish, and promote research in top-tier peer-reviewed journals and media, and commercialise knowledge
- be interdisciplinary, drawing on researchers from UTS’s faculties of Business, Design, Architecture and Building, and Information Technology, providing a diverse, yet focused, foundation for pioneering research
- create an excellent research environment within which both competitive and seed-funded research projects flourish and provide scholarships and mentoring for PhD, master by research and honours students
- attract international researchers to visit, research, and engage with the Centre, to develop value-adding activities in order to leverage intellectual resources commercially and intellectually
- be the internationally-recognised centre of research excellence with members playing major roles in international academic associations and conferences
- develop collaborative relationships with overseas research bodies.

The Centre’s programs of research are coherent and sustainable. The coherence is given by its focus on organisational practices. These practices are defined as those that are endemic to all organisational settings, which provide significant research themes that address management issues critical to the evolution and performance of the ways in which contemporary organisations (involving business, government, markets, and civil society) evolve and perform. Thus, ICAN Research develops and offers expertise and understanding of matters relevant to all organisations. For instance the:

- emergence and design of organisational and interorganisational strategies and associated practices
- development of strategies for, and management of, practices for continuous improvement, such as coaching
- management of practices that frame the ecological, ethical and social responsibilities of organisations and collaborative stakeholders
- management of practices underlying organisational innovation, knowledge, and learning
- management of, and resistance to, organisational change
- impact that these practices have on individual identities.

ICAN Research is truly international and has well-developed linkages with overseas research centres. The Centre offers scholarships of various kinds and supports many visiting researchers, doctoral and postdoctoral scholars. Its work is published in the most-esteemed journals in the fields in which its members operate.

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KEY UNIVERSITY RESEARCH CENTRE IN COMMUNICATION AND CULTURE – TRANS/FORMING CULTURES

The Trans/forming Cultures Centre specialises in studies of social and cultural transformations in the context of social and political change. It supports the development and reporting of narratives of change and intervention in a globalising world as well as research on narratives of the local, communicative technologies, and cultural interaction in Australia, Asia, and in the regions of the Pacific and Indian Oceans. The Centre’s researchers are drawn from social inquiry, cultural studies, history and environmental research, and international studies, and are committed to working with communities to understand the effects of globalisation in our region.

Since its establishment in 2002, and relaunch in 2004, the Centre has increased its scope as a research enterprise with an international outlook, and its links both within and external to the University. The Centre welcomes postgraduate students working in these areas to build the research community in its areas of strength which are:

- social and cultural research in indigenous, multicultural and migrant histories – especially where that impacts on theories and narratives of place and time
- communication histories of the present, especially in regard to television and new media networks
- postcolonial and eco-criticism applied to Australasia and the Indian Ocean.

Activities of the Centre include a postgraduate seminar series, visiting international scholars, intensive postgraduate summer schools, conferences and publications.

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KEY UNIVERSITY RESEARCH CENTRE: QUANTITATIVE FINANCE RESEARCH CENTRE

The mission of the Quantitative Finance Research Centre is to coordinate and develop a major program of research in quantitative finance and to work collaboratively with industry on issues to address problems in financial risk management and asset pricing in order to enhance UTS’s international research reputation.

The Centre has excellent international links, an active seminar program and an active visitor program, it publishes a discussion paper series and it sponsors the annual Quantitative Methods in Finance Conference. The Centre attracts high-quality doctoral students and is developing the Master of Quantitative Finance to become one of the premier degrees in finance in the Australasian and Asian regions.

Members of the Centre include UTS faculty and research students, research associates from other Australian and international universities and industry research associates.

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COOPERATIVE RESEARCH CENTRES

AUSTRALASIAN COOPERATIVE RESEARCH CENTRE FOR INTERACTION DESIGN PTY LTD

The Australasian CRC for Interaction Design (ACID)’s core business is research and development, and the commercialisation of content and technologies for creative industries. Areas of interest include game development, digital art, performing and visual arts, design, film, television and the multimedia sectors.

ACID makes games, interactive software engines, unexpected devices, innovative designs, 3D worlds, audio gizmos, interfaces, psychological breakthroughs, films, museum installations, perverse digital interpretations, business products, videos, music, dances, architectural displays, exciting performances and whole new genres of interaction.

UTS and ACID have commenced four projects across three faculties (Information Technology; Design, Architecture and Building; and Humanities and Social Sciences) in the areas of:

- creative collaboration
- creative communities
- virtual communities
- suburban communities.

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CAPITAL MARKETS COOPERATIVE RESEARCH CENTRE

The Capital Markets CRC (CMCRC) is designed to directly assist the development of Australia’s capital markets, and therefore Australia’s financial centre aspirations, by providing:

- technology solutions to serve as the backbone infrastructure for capital markets – local, regional and global. The initial focus of the CRC is on developing inter-operability among Australian systems/markets (in particular program trading, real-time risk management, market surveillance and compliance) and eventually, once the appropriate business model is determined, developing secure and scalable solutions to provide the infrastructure for global capital markets (expanding into the areas of trading, clearing and settlement and registry)

- technology in context: research into the interaction between technology and four other key elements of capital markets – regulation, information, financial instruments and participants. For instance, technology solutions must be developed with market participants in mind. They must be flexible enough to cater for major regulatory differences across marketplaces
human capital development programs capable of sustaining financial market innovation. There is a widely held view that Australia is falling behind other countries in educational investment in IT. The CMRCRC seeks to help resolve this problem especially in the intersection of finance and IT, an area specifically identified by the Australian Centre for Global Finance as one requiring urgent attention.

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COOPERATIVE RESEARCH CENTRE FOR CONTAMINATION ASSESSMENT AND REMEDIATION OF THE ENVIRONMENT

The CRC for Contamination Assessment and Remediation of the Environment (CRC CARE) was established in 2005 as a joint venture with 25 partners. The university partners are UTS, the University of South Australia, the University of Queensland, Southern Cross University and Curtin University of Technology. Industry partners include government departments, environmental protection authorities, mining companies, petroleum companies, venture capitalists, engineering consultancies and equipment manufacturers.

Australia has a legacy of contaminated land with hundreds of thousands of sites in need of remediation. Many of these sites have high-value commercial and residential potential. Contaminated land is a liability, but remediated land is an asset. However, remediation can be very expensive. CRC CARE aims to develop cost-effective technologies and skills, faster site characterisation, improved risk assessment and quantification of liability, with a strong focus on creating new wealth, new jobs and new business.

CRC CARE combines industry needs, research capability and regulatory framework development.

CRC CARE’s research programs are in the areas of:
- risk assessment
- remediation technologies
- prevention technologies
- social, legal, policy and economic issues
- education.

In addition, a number of national demonstration sites will be established to tie in all research program activities.

The UTS contribution is being led by the National Centre for Groundwater Management, with participation by specialists from the Institute for Water and Environmental Resource Management and the faculties of Engineering and Science.

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COOPERATIVE RESEARCH CENTRE FOR WATER QUALITY AND TREATMENT

UTS, through its Institute for Sustainable Futures, is a participating organisation in the CRC for Water Quality and Treatment (CRCWQT). The CRCWQT is an unincorporated joint venture between 29 participants representing government, industry and research organisations. The Centre was established in July 2001 under the Australian Government Cooperative Research Centres Program. The Centre’s head office is located at the Australian Water Quality Centre in Adelaide.

The CRCWQT’s mission is to assist the Australian water industry to produce high-quality drinking water at an affordable price. Research undertaken by the Centre will provide a solid foundation for evidence-based investment decisions for water infrastructure, as well as innovative solutions for achieving enhanced aesthetic water quality that meets community needs.

The Institute for Sustainable Futures (ISF) is the lead agency in the CRCWQT project on best practice cost analysis methodology for sustainable urban water. In this project, ISF will investigate and improve methodologies for cost analysis of sustainable urban water and provide a guide to best practice. The aim is to allow true comparisons of the cost of sustainable strategies and systems with the cost of conventional alternatives. This will facilitate the inclusion of these strategies in water utility planning. Other partners in this project are Sydney Water Corporation, Environmental Protection Agency (Qld), South East Water Limited, Hunter Water Corporation, Melbourne Water, and Yarra Valley. This project is a component of the Sustainable Water Sources program.

In addition, the program leader of the CRCWQT’s People’s Perspectives program, Dr Naomi Roseth, has an office at the ISF. The People’s Perspectives program aims to develop an understanding of community views, needs, expectations and preferences for water services across Australia.
COTTON CATCHMENT COMMUNITIES 
COOPERATIVE RESEARCH CENTRE 

The Cotton Catchment Communities CRC brings together many universities, government research and management organisations and industry partners in a collaborative environment working on research, education and commercialisation activities for the benefit of the Australian cotton industry, regional communities and Australia. Goals for the Cotton Catchment Communities CRC include improved economic performance beyond the $1.2 billion that the cotton industry is currently worth and maintaining sustainable use of natural resources for regional communities. 

UTS has two research groups undertaking projects for the Cotton Catchment Communities CRC. The National Centre for Groundwater Management is investigating aquifer recharge and developing coupled surface water and groundwater flow models to improve our ability to estimate aquifer sustainability. The Institute for Water and Environmental Resource Management is undertaking research to benchmark water quality health. 

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SUSTAINABLE TOURISM COOPERATIVE RESEARCH CENTRE 

UTS is a partner in the national Sustainable Tourism Cooperative Research Centre (STCRC). Launched in 1997 and awarded a new seven-year term in 2003, STCRC involves 16 universities in six states and two territories and a similar number of tourism industry partners. The industry partners in NSW are the Department of Environment and Conservation (Parks and Wildlife Division) and Tourism NSW. 

The mission of the STCRC is the development and management of intellectual property to deliver innovation to business, community and government, enhancing the environmental, economic and social sustainability of tourism. UTS has been involved in a number of STCRC projects, including:

• national park/tourism indicators project – to develop a visitor monitoring framework for natural areas based on key indicators of visitor use and satisfaction 
• environmental accreditation study – a review of research into the effects of tourism companies’ green credentials on consumer demand 
• urban tourism scoping study – a review of research in the field of urban tourism to establish a research agenda 
• Australian gateway cities and regional tourism study – a study of the relationship between ‘gateway’ cities and regional tourism for overseas visitors 
• urban parks and tourism scholarship – a PhD scholarship to study the role of parks in tourism, jointly sponsored with the Sydney Urban Parks Education and Research Group 
• monitoring community attitudes towards national parks – a study of local community and tourism industry attitudes 
• urban tourism precincts – involving research into visitor experiences and precinct management issues 
• benchmarking caravan and tourist park operations – to develop a system for evaluating operational performance 
• making national parks a tourism priority: the visitor experience – a national review of research relating to visitation patterns and the determinants of the quality of visitor experiences 
• marketing and demarketing of tourism in national parks 
• development of a framework and a casebook of best practice interpretation research that contributes to sustainable tourism 
• the professionalisation of ecotour guides – a PhD scholarship involving an investigation into the influence of ecotour guides on the visitor experience 
• setting a research agenda for disability and associated easy-access markets in the tourism sector 
• assessment of the effectiveness of current marketing practices relating to protected areas 
• cultural landscapes in tourism, and 
• systematic and strategic collection and use of visitor information in protected area management – intended to develop a consistent national approach to visitor data collection and use among Australian protected area agencies.

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ARC CENTRES OF EXCELLENCE

In 2003 the Australian Research Council established eight Centres for Excellence. UTS is a participant in the following two.

ARC CENTRE OF EXCELLENCE FOR AUTONOMOUS SYSTEMS

The Centre for Autonomous Systems (CAS) is jointly funded by the Commonwealth and state governments and is a collaboration between UTS, the University of Sydney and the University of New South Wales.

The aim of the Centre is to research and explore the nature of intelligence in problems of perception learning and control, and to lay the scientific foundation for the development and application of intelligent autonomous systems. Autonomous systems represent the next step in the fusion of machines, computing, sensing and software to create intelligent systems capable of interacting with the complexities of the real world.

Autonomous systems have a broad and diverse range of applications of national importance. These range from field applications such as automated mining, cargo handling, construction, forestry and transport, to potentially dangerous applications including robotic bushfire fighting, search-and-rescue, and broad areas of air, land and maritime defence, to social applications in robotic health care, automotive and entertainment.

The main objective of the Centre is to focus on key research challenges in this field and showcase the integrated operation of complex intelligent autonomous systems with capabilities substantially beyond any existing systems. The Centre aims to play a key role in establishing a new autonomous systems industry in Australia.

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ARC CENTRE OF EXCELLENCE FOR ULTRAHIGH-BANDWIDTH DEVICES FOR OPTICAL SYSTEMS

The vision of the Centre for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS) is to develop the experimental and theoretical expertise to design and build linear and nonlinear all-optical signal processing devices and to miniaturise these, leading to the ‘photonic chip’, believed to be the building block for the next generation of optical systems.

CUDOS’s research focuses on a range of novel optics, including photonic crystals, microphotonic structures, microstructured optical fibres and nonlinear photonic materials, and will rely on advanced fabrication techniques, new material systems and possibly entirely new principles.

CUDOS spans five universities in three cities – UTS, the University of Sydney, the Australian National University, Macquarie University and Swinburne University of Technology.

Its UTS node, led by Professor Lindsay Botten and based in the Department of Mathematical Sciences in the Faculty of Science, is home to the CUDOS Computational Modelling Program, which supports the work of the Centre through the development of novel theoretical and semi-analytic computational models, the development and implementation of general purpose finite difference time domain codes on large scale parallel computer systems, research in the areas of photonic crystals, microstructured optical fibres and radiation dynamics, and the provision of computational support for a range of experimental programs at other nodes.

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CENTRES OF ENTERPRISE, RESEARCH AND/OR COMMUNITY SERVICE

The policy on Establishment and Management of UTS Centres of Enterprise, Research and/or Community Service (CERCS) is available online at:

AUSTRALIAN CENTRE FOR EVENT MANAGEMENT

The mission of the Australian Centre for Event Management (ACEM) is to develop and support industry best practice in event management and to maximise the economic, social and cultural benefits that flow to the Australian community through the conduct of events. Its core activities include curriculum development of event courses, the delivery of continuing education programs for the event industry, and research and consultancy services associated with the planning, conduct and evaluation of events. ACEM publishes and distributes resources associated with the management of events and maintains a resource centre housing documentation and research in this area. Through its activities, ACEM seeks to position Australia as a centre of excellence in the broad area of event management.

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AUSTRALIAN CENTRE FOR INDEPENDENT JOURNALISM

The Australian Centre for Independent Journalism (ACIJ) was established in 1990. Its goal is to stimulate the production of high-quality journalism, especially investigative journalism; to conduct and support research into journalism and the media; to contribute to scholarly debate and research about journalism; and to promote community discussion about the relationship of journalism to political, social and cultural democracy.

Activities of the Centre include the publication of investigative journalism; academic research in journalism studies and related fields; provision of resources and reference services for journalistic and academic research; continuing education for journalists, students and others; and contributions to debate in areas of concern to journalists.

Members of ACIJ include staff and students of UTS, working journalists and others interested in the media across Australia.

Major projects include the online magazine, Reportage; the George Munster Journalism Forum and the annual George Munster Award for Independent Journalism; the annual Public Right to Know conference; and other occasional seminars and publications.

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AUSTRALIAN CENTRE FOR OLYMPIC STUDIES

The Australian Centre for Olympic Studies (ACOS) was launched in October 2005 by Helen Brownlee of the Australian Olympic Committee. The then Pro-Vice-Chancellor (Teaching and Learning), Dr Alex Byrne, opened an Olympic Studies Room at Kuring-gai campus at the same event.

ACOS provides a national focus for Olympic studies in Australia. It seeks to examine the Olympic phenomenon in its broadest sense: to consider issues relating to the Olympic Games; to research the Paralympic Games and other major sporting events; and to focus on ‘sport for all’, which is advocated by the Olympic movement. By gathering information about the organisation of the Sydney 2000 Olympic Games and other major international sporting events, UTS has developed a research database to assist in the organisation of similar future events.

ACOS is hosted by the School of Leisure, Sport and Tourism in the Faculty of Business at Kuring-gai campus.

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AUSTRALIAN CENTRE FOR PUBLIC COMMUNICATION

The Australian Centre for Public Communication is located within the Faculty of Humanities and Social Sciences. The Centre’s goal is to contribute to research and to stimulate debate about public communication in Australia and internationally. It facilitates ethical practice in the public communication industry in Australia.

The Centre aims to enhance the standard of professional practice and to contribute to the creation, application and extension of knowledge about public communication for the benefit of society. It provides a reference point at UTS for expertise, consultation and opinion on issues and policy for public communication, particularly public relations and advertising.

The Centre provides opportunities for productive relationships with the professions and their representatives in industry and the community, promoting excellence in research, scholarship, education and innovation.

Primary activities of the Centre include undertaking research projects, contributing to the profile of UTS as a leader in the education of public communication professionals in Australia, extending links with overseas scholars and institutions in public communication and related areas, developing and delivering quality short courses in advertising, public relations and related areas, providing an identity for industry liaison and partnerships (particularly work experience, internship programs and job opportunities for students and graduates) and encouraging debate and discussion through seminars, publications and short courses.

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AUSTRALIAN CENTRE FOR PUBLIC HISTORY

The Australian Centre for Public History was established in 1998 as a centre of UTS. The Centre seeks to promote the practice and understanding of public history in both the academy and the community.

The objectives of the Centre are to provide a variety of bodies in educational, community and professional sectors with a gateway to public history expertise and resources at UTS; to foster international exchanges of both staff and students; to facilitate international and related endeavours; to publicly demonstrate the integral link between public history skills and knowledge at UTS and in the broader community; and to foster and undertake research in the area of public history and to carry out appropriate consultancies to support these objectives.

The Centre has recently completed a history of the Sydney Shire of Sutherland; an oral history of Sydney’s northern beaches in the 1930s entitled Cracking Awaba; and a history of an Italian fishing community entitled The Fishermen of Iron Cove.

Activities of the Centre include maintaining and developing national and international public history networks, public history conferences and seminars, and working with community groups. The Centre also houses the refereed journal, Public History Review.

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CENTRE FOR AUSTRALIAN COMMUNITY ORGANISATIONS AND MANAGEMENT

The Centre for Australian Community Organisations and Management (CACOM) is the first centre in an Australian university to focus attention on community or private nonprofit organisations and their management.

Academic staff associated with the Centre engage in research into community organisations, their management and the associated phenomena of philanthropy and volunteering and community capacity building.

The Centre contributes to knowledge of and about community organisations and their management by publishing the results of research through a Working Paper series and by organising seminars, conferences, etc.

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CENTRE FOR E-BUSINESS AND KNOWLEDGE MANAGEMENT

The Centre for e-Business and Knowledge Management (eK Centre) is a state-of-the-art information and e-business demonstration laboratory. It provides a high-tech environment for studying and simulating e-business scenarios and real-time information management in the digital age.

Launched in 2000 by the Faculty of Business and cooperative partners IBM, Reuters and SAP, the eK Centre is equipped with leading-edge IBM computer hardware and modern e-business software applications from SAP including a number of data warehouse applications and business intelligence software with strategic links to real-time international information services and financial markets information.

The Centre focuses on providing high-quality research, consulting and training in e-business, knowledge management, ERP systems, information integration and real-time information management.

Facilities available at the Centre include a demonstration dealing room with real-time market data feeds, access to the Internet, facilities for mini-video conferencing and video and television presentation.
The eK Centre offers an interdisciplinary approach, which is essential for dealing with the complex challenges involved in managing the digital age. The Centre facilitates professional research studies on the topics of current interest to those operating in the finance industry and e-business, and innovation in management in this digital age with high industry relevance.

The Centre also holds workshops, engages in the use of modern e-business software applications including data warehouse applications and business intelligence software, and contributes to publications. Within the Faculty of Business, the eK Centre draws on experienced researchers in accounting, business information systems, finance, management and marketing with research interests in the Centre’s key areas of:

- e-business
- knowledge management
- ERP systems
- information integration and real-time management
- electronic financial trading
- customer relationship management.

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CENTRE FOR ECOTOXICOLOGY

The Centre for Ecotoxicology is a joint venture between UTS and the NSW Environment Protection Authority (EPA). The Centre was set up in 1985 with the aims of promoting education, research, consultancy and information transfer in the science of ecotoxicology.

Ecotoxicology is the study of the pathways, transformations, fate and impacts of chemicals, mixtures and disturbances to physical conditions in the environment and, in particular, on living species and ecosystems. This study involves the necessary meeting of the chemical and biological sciences.

The Centre has facilities for toxicological testing and chemical analysis, and carries out basic and applied research in ecotoxicology. Projects range from laboratory tests, such as bio-assays, to field monitoring, baseline and impact studies, all of which are designed to provide the information to underpin the development of appropriate Australian environmental quality guidelines. The Centre also provides a venue for postgraduate coursework and research students, for visiting scientists, and for workshop and conference activities. EPA and UTS staff collaborate in the teaching, postgraduate supervision and research of the Centre.

Research work involves consultation with industry and government in identifying areas in which investigation is needed on the impact of chemicals on native flora and fauna under Australian climatic and other environmental conditions.

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CENTRE FOR ELECTRICAL MACHINES AND POWER ELECTRONICS

The mission of the Centre for Electrical Machines and Power Electronics is to benefit humanity through the application of electrical machines, power electronics and related expertise in high-quality research and significant industrial projects.

The Centre:
- comprises a team of highly qualified experts with international and local experience
- has strong links with Australian government research organisations such as the CSIRO
- works in all areas of product development, from research and design to prototype construction and testing
- provides expertise in electromagnetics, magnetic materials, power electronics, control electronics, electrical engineering, fluid dynamics, vibration and mechanical engineering
- combines industry-sponsord contract research and long-term postgraduate strategic research supported by research grants.

Projects include:
- development of low-cost, high-performance motor drives for electrical appliances using new soft magnetic composite (SMC) materials – ARC Linkage and Waterco Ltd
- 3D magnetic property testing and modelling – ARC Large Grant
- design and control of sensorless, brushless, linear permanent magnet motors for fluid pumping – ARC Linkage and SES Ltd
- high-efficiency, low-cost, low-noise, variable-speed compressor drive for refrigeration and air conditioning systems – ARC Linkage and Heatcraft Ltd
- 20kW direct drive PM wind turbine generator – ACRE and Westwind Ltd
- mobile fuel cell system – ACRE and UTS
- PM motor for marine drive systems – Solar Sailor Holdings Ltd
- rotatory blood pump – VentriAssist Ltd.

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CENTRE FOR FORENSIC SCIENCE

The Centre for Forensic Science promotes forensic science as a multidisciplinary methodology applied within a scientific, legal and political structure. It consists of UTS core and associate members from the faculties of Science, Law, Engineering, and Information Technology, as well as industry partners.

The Centre aims to provide high-quality education, enhance professional practice and integrate high-calibre research and independent services for the benefit of the community at large.

The Centre capitalises on the well-established UTS forensic programs and organises short courses and professional seminars for law enforcement agencies, forensic organisations and practitioners, insurance companies, legal firms and various research institutes.

Research programs are in the areas of fingerprints, questioned documents, trace evidence, fire investigation and analysis, illicit drugs, toxicology, DNA profiling, materials and engineering, statistics and data handling, and artificial neural network applied to forensic classification.

The Centre also offers an independent investigative and consulting service through the UTS commercial company, accessUTS Pty Limited.

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CENTRE FOR HEALTH SERVICES MANAGEMENT

The Centre for Health Services Management is a collaborative centre between the faculties of Nursing, Midwifery and Health, and Business, and operates in close association with the health industry nationally and internationally.

The Centre provides research expertise, consultation and education in the areas of nursing and health services management, health services research and information management. Teaching and research activities in which the Centre is involved may focus on aspects such as:

• the services provided by the health sector and the ways in which institutions provide these services (e.g. the impact of patient transfers on length of stay, models of care)
• the workforce and labour trends (casualisation, cultural diversity, skill mix)
• the context in which health services are delivered (workload measurement, resource allocation, organisational culture and structures)
• the outcomes of service provision (patient and staff safety outcomes).

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CENTRE FOR LOCAL GOVERNMENT

The objective of the Centre for Local Government is to support the advancement of local government through continuing professional education and training, research and specialist consulting services. In Australia and internationally, the Centre works collaboratively with local government associations, professional institutes and state and Commonwealth government departments.

The Centre is a major provider of continuing professional education for local government in NSW. Education and training programs are offered throughout the state and have a strong emphasis on workplace learning and high-quality, up-to-date content. In addition, the Centre regularly undertakes applied research, training programs and consultancies for all spheres of government, individual councils and regional groups of councils, across a wide range of activities. Significant contributions are made to the international development of local government through professional education courses and joint programs with partner organisations in the Asia-Pacific region, South Africa and elsewhere.

The Centre offers a Graduate Diploma and a Graduate Certificate in Local Government Management, which are delivered largely in flexible, workplace-based modules. Students can progress to a Master’s degree in Business or Management.

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CENTRE FOR MEDIA ARTS INNOVATION

The Centre for Media Arts Innovation was established in 2006 as a centre of UTS. The Centre is dedicated to innovative research and curricular activities in the media arts.

The objectives of the Centre are to provide the education, community and professional sectors with a gateway to media arts expertise and resources in the University; to be a major influence in the development of a media arts precinct in the Ultimo district, with a particular emphasis on developing partnerships with the ABC and the Powerhouse Museum; to enhance and contribute to innovative and flexible teaching at undergraduate, graduate and postgraduate levels; to foster international exchanges and partnerships for staff and students; to develop research in the area of media arts and raise the University’s public profile in this field; and to stage events, seminars and exhibitions presented to the university community and the general public, e.g. ‘The Golden Eye Awards’.
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CENTRE FOR NEW WRITING
The UTS Centre for New Writing develops and promotes research in the areas of new writing and Australia’s literary culture. It acts as an incubator of ideas for creative writing practice and research, raising the University’s profile in these areas. The Centre runs literary seminars, writer ‘in conversations’, quality short courses and advisory services. It participates in contemporary debates and discourse about writing and cultural practices, and links with writers and researchers, corporate, government and community organisations nationally and internationally in the areas of writing, editing and publishing.

The Centre was officially launched in 2005. It hosts events, seminars, sessions at writers’ festivals and other community events, and research projects relating to new writing, as well as working with Sydney’s diverse cultural community.

The Centre’s Management Committee and Advisory Board, on which writers, staff and industry professionals are represented, continues to develop extensive local and international links to build a culture that draws researchers, writers and research degree students to the Centre.

In 2007 the Centre’s research will focus on the examination of international developments in writing, teaching and creativity in the academy and the wider community. It will continue its active engagement in research projects in the Asia–Pacific region, with the Indigenous community, and relating to creative non-fiction.

Annual membership of the Centre for New Writing is available to people interested in creative writing, research and publishing. Members receive regular notification of a series of high-profile writing seminars and master classes as well as other benefits.

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CENTRE FOR MIDWIFERY, CHILD AND FAMILY HEALTH
The former Centre for Family Health and Midwifery at UTS was established in July 2000 as a result of collaboration between the Faculty of Nursing, Midwifery and Health and the health industry.

The goal of the Centre for Midwifery, Child and Family Health (CMCFH) is to improve the health of Australian families through research, education, practice development and consultancy. The Centre’s focus is on women during pregnancy, labour, birth and the early postnatal period, and on children up to five years of age. The Centre aims to conduct research that improves the quality of practice and services provided by practitioners, particularly midwives and child and family health nurses. It also undertakes research to improve the systems responsible for the delivery of that care. This research informs education, practice and policy development and consultancy activities.

Underpinning the work of CMCFH is a focus on a broad definition of health incorporating physical, mental and social wellbeing. The Centre believes that the sharing of professional knowledge, research evidence and experience through partnerships of clinicians, university faculties, other health professionals and community members enhances and improves services. CMCFH is committed to improving health care through education and research, and works with others to integrate this into practice and policy. The Centre believes that research incorporated into consultancy, technical advice and policy development can improve the health and social systems that support new families.

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CENTRE FOR OBJECT TECHNOLOGY APPLICATIONS AND RESEARCH
Established in 1994, the Centre for Object Technology Applications and Research (COTAR) provides a focal point for the software industry using, or considering using, the software development techniques of object technology. COTAR aims to promote and conduct research in object-oriented software engineering, object-oriented information systems and object-oriented computing. It provides not only a focus for such research and collaborative work with industry, but also high quality professional development education.

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CENTRE FOR SOCIAL INQUIRY
The Centre for Social Inquiry was established in 2006 as a centre of UTS. The Centre develops and promotes the application of social inquiry knowledge to issues of social change with local, national and global communities.

The objectives of the Centre are to critically investigate research, policy and advocacy through social, political and historical frameworks; to explore research, advocacy, analyses and communication praxis in a spectrum of contexts, from local to global; to build reflexive learning, research and social advocacy skills with students, staff,
Key Centre initiatives include (but not limited to): techniques, in particular agent-based modelling. of these competencies in conjunction with simulation include empirical cross-referencing using combinations forms of network analysis. Emerging areas of interest techniques, advanced text analysis software and various and unstructured information using visualisation A key competency of the Centre is the analysis of structured emergent behaviour of markets and marketing. The activities of the Centre include research, education, training and consulting. These activities allow industry partners to gain first-hand knowledge of methods and tools to understand and potentially harness the non-linear emergent behaviour of markets and marketing. A key competency of the Centre is the analysis of structured and unstructured information using visualisation techniques, advanced text analysis software and various forms of network analysis. Emerging areas of interest include empirical cross-referencing using combinations of these competencies in conjunction with simulation techniques, in particular agent-based modelling. Key Centre initiatives include (but not limited to):

- visualisation of collaboration – mapping, analysis and interpretation of linkages between actors in networks and their role in network evolution
- information flows in, out and through social networks – the exploration of stakeholders’ social networks’ capabilities to influence consumer behaviour
- scenario planning, e.g. TV (outside the box), future of tourism, ‘BrainPorts’ and executive education
- application of storytelling and drama constructs to new product development, analysis of sales scripts and consumer branding
- emergent perspectives of B2B negotiations, e.g. large scale defence procurement
- application of network analysis to globalisation (Atlas of Globalisation with Princeton University) and B2B interfirm analysis
- ‘rainmaking’ – the exploration of unexpected weather patterns in response to human intervention.

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COMPLEX SYSTEMS RESEARCH CENTRE
The Complex Systems Research Centre (CSRC) at the School of Marketing explores the emergent properties of markets and marketing. Emergence refers to the evolution in complex adaptive systems as a result of interactions between events and participants. This stems from an ability for marketing executives to increasingly recognise that marketing is characterised by a network dominance and a drive to understand the patterns driven by micro-level perturbations leading to the emergent macro-level properties.

The activities of the Centre include research, education, training and consulting. These activities allow industry partners to gain first-hand knowledge of methods and tools to understand and potentially harness the non-linear emergent behaviour of markets and marketing.

NATIONAL CENTRE FOR GROUNDWATER MANAGEMENT
The National Centre for Groundwater Management is a joint enterprise between the faculties of Engineering and Science. The Centre’s general aims are researching groundwater problems of strategic national importance, coordinating and developing postgraduate and continuing education programs, and liaising with industry.

The Centre was established with the support of the Commonwealth Government, through Land and Water Australia, as a national centre for research, consultancy and training in groundwater and environmental applications. The Centre offers courses as a collaborative effort between the faculties of Engineering and Science, including the Master of Science in Hydrogeology and Groundwater Management, the Graduate Diploma in Hydrogeology and Groundwater Management, and the Graduate Diploma in Engineering in Groundwater Management.

The Centre also offers Doctorates in hydrogeology and groundwater management and a Master’s degree by research in groundwater management. There are flexible arrangements for each program: part-time, full-time and block mode for on-campus students and distance mode for off-campus students.

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UTS COMMUNITY LAW CENTRE
The UTS Community Law Centre was opened in May 1996 and is a part of the Faculty of Law. It provides free legal services to UTS staff and students (UTS Union Legal Service) and to staff and students of TAFE Sydney Institute (TAFE Outreach Legal Service). In providing legal services, the Centre relies on the assistance of law students who each volunteer four hours per week.

The Centre provides advice, representation and referral in a broad range of matters such as credit and debt, criminal law, discrimination law, domestic violence, employment law, social security, tenancy and victims compensation.

The Centre aims to develop effective strategies that will enhance engagement between the University and the community, including presenting legal education seminars and workshops, publishing information in printed form or on the Centre’s website and resource specific projects. The Centre adopts a multidisciplinary approach to legal advice and research, recognising the complexity of providing legal solutions in modern society.
Centre staff are also involved in legal research, policy and law reform. These activities facilitate community access to researchers at the Centre and to academic staff of the Faculty of Law. The Centre provides community organisations with legal research expertise in order to respond to the impact of particular laws and policies on their communities. The Centre also offers an elective law subject, Community Justice Studies, giving law students the opportunity to undertake research addressing community legal issues. During 2006 the Centre established a new e-journal, *Public Space: the Journal of Law and Social Justice*. This is a refereed journal with the first volume to be published in early 2007 by the Faculty of Law and the Community Law Centre.

The Centre also seeks to promote practice-based education by providing students with direct experience of assisting clients, the dynamics of law reform, community consultations and the impact of politics on the legal system.

**Inquiries**

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TAFE Sydney Institute  
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http://www.law.uts.edu.au/clc

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**OTHER ORGANISATIONS**

**AUSTRALASIAN LEGAL INFORMATION INSTITUTE**

The Australasian Legal Information Institute (AustLII), a joint facility of the UTS and UNSW Law faculties, maintained its position in 2006 as Australia’s leading online legal research facility and the leader in the global ‘free access to law’ movement.

AustLII provides more than 230 Australasian legal databases, covering legislation, case law, law journals and other content from every jurisdiction. The AustLII website receives more than 600,000 hits per day and up to 30 per cent of all law-related web traffic in Australia.

AustLII also operates the World Legal Information Institute (WorldLII), in which 10 university-based legal information institutes around the world combine to provide free access from one point to more than 675 legal databases from 86 countries.

During 2006, AustLII, with funding from AusAID and the Australian Attorney-General’s Department, built and launched the Asian Legal Information Institute (AsianLII), which provides access to legal materials from more than 27 countries in the Asian region.

The Australian Research Council has been AustLII’s single largest source of support, joining 49 other stakeholders including AusAID, Thomson Legal & Regulatory Ltd, Standards Australia Limited, the Department of Foreign Affairs and Trade, Defence Legal, law firms, courts and tribunals.

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**AUSTRALIAN TECHNOLOGY PARK INNOVATIONS PTY LTD**

Australian Technology Park Innovations (ATPi) is a vibrant, world-class technology business accelerator that nurtures and supports start-up businesses in the biotechnology, ICT and electronics sectors. The convergence of these technologies is critical in creating new technology businesses, and ATPi focuses on enhancing these synergies.

ATPi’s shareholders are: UTS, the University of Sydney, the University of New South Wales and the Australian National University.

ATPi has a strong strategic focus on working with its shareholders to drive commercialisation of intellectual property created in their institutions. ATPi also supports start-up ventures emanating from the private sector.

ATPi has developed and refined an integrated suite of business development programs: bizStart is designed to turn a business idea into a realistic business plan, and bizConnect provides a broad range of commercialisation services. Both programs are underpinned by bizNetClub, which enhances business knowledge through access to learning networks and outreach programs.
ATPi's commercialisation process and business support services are based on a simple maturity model that leads to:

- the creation of a realistic business plan
- market validation of the products or processes
- securing initial business deals
- business expansion
- successful graduation from ATPi’s programs.

Since 2002, ATPi, in partnership with the NSW State Government’s BioFirst Biotechnology Program, has focused on establishing a biotechnology precinct capable of accommodating and supporting start-up companies in state-of-the-art laboratory facilities. The facilities have been designed to incorporate flexible tenancy arrangements and to provide a core infrastructure that enables companies to set up their operations as quickly as possible. The precinct can house companies requiring wet lab facilities as well as those working in the biomedical devices, biomaterials and bio-informatics arenas. Business development of these companies is provided through the core business development programs.

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APACE VILLAGE FIRST ELECTRIFICATION GROUP
APACE Village First Electrification Group (VFEG) is a group of UTS, community and Indigenous professionals who assist rural communities in the Asia-Pacific region to implement low-impact, environmentally-responsible technology. The group develops and manages village-based renewable energy projects.

Working from Sydney, the Solomon Islands, Vanuatu, Papua New Guinea and Bougainville, the group partners indigenous communities on long-term projects and is the devolved outcome of the previous Australian non-government organisation known as Appropriate Technology for Community and Environment Inc., or APACE. It coordinates environmentally sustainable micro-hydroelectric power schemes in rural villages. These projects are designed to enable villagers to control their own futures; emphasis is placed on information, training and awareness as core components.

The group acts to promote and undertake research into environmental solutions and to promote consultation and cooperation between statutory and other bodies in all matters affecting energy poverty, as well as to develop informed public opinion of these matters.

APACE VFEG is incorporated through the nonprofit Earth Trust and receives donations through its Earth Fund.

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UTS TRAINING AND DEVELOPMENT SERVICES
UTS Training and Development Services is recognised as one of Australia’s leading providers of training and consultancy services in the fields of human resource development and vocational education and training.

The Centre’s focus is on the provision of consultancy and training services designed to provide individuals and organisations with the capabilities to achieve peak performance in today’s dynamic business environment. Qualifications offered by the Centre include:

Certificate IV in Training and Assessment TAA40104
Programs include:
- Working in VET
- Learning Environment
- Designing Learning
- Facilitating Groups
- Train the Trainer
- Workplace Assessing.

Diploma of Business (Frontline Management) BSB51004
Programs include:
- Professional Development
- Project Management
- Team Effectiveness
- Customer Service
- Financial Management
- Change and Innovation
- Performance Management
- Workplace Safety.

Certificate IV in Business (Frontline Management) BSB41004
Programs include:
- Professional Development
- Team Effectiveness
- Customer Service
- Change and Innovation
- Project Management
- Workplace Safety.

The Centre offers all the above courses on a year-round public course calendar. Alternatively, all courses can be customised to meet specific organisation or individual needs. Where appropriate, articulation arrangements exist between these qualifications and undergraduate courses within the Faculty of Education.

The Centre is also a market leader in specialised vocational education and training consultancy services.
Areas of speciality include:
- development of competency standards
- training needs analysis
- preparation of learner resources, including manuals, handbooks and videos
- development of training modules
- training evaluations
- assessment tool development
- auditing of assessment systems.

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