## 5 > Faculties, Institutes and Centres

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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 project management, the economics of the built environment, construction innovation and built infrastructure, property studies, architecture and design theory, sustainable development and urban planning.

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.

Inquiries

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FACULTY OF EDUCATION

The Faculty of Education is unique in Australia in that it covers the professional development of educational practitioners across the broadest educational range – from primary education through to adult workplace teaching and learning. The Faculty’s courses provide a rich program combining theory and practice with unique opportunities to discover more about learning in a variety of contexts – in specialist schools, community organisations, corporations and learning organisations in Australia and overseas.

The Faculty of Education is committed to:
• lifelong learning
• connecting academic scholarship and research with practice
• encouraging service and leadership in the community
• developing students’ capacity for both autonomous and group learning, and
• promoting education as a vehicle for social justice.

The research effort is also directed at the full spectrum of educational provision, and it is characterised by an interest in learning wherever it may occur: in the community, the workplace, schools, universities, colleges, and family life. The explicit aims of research in the Faculty are:
• to focus research and development in the fields of adult teaching and learning; vocational education and training; language, literacy and numeracy in education; educational change; science and technology education; and community education
• to conduct research of social benefit and importance, addressing, in particular, the needs of industry, business, government, the professions, cultural organisations and the community
• to be involved in contributing to, leading, and extending the public agenda on matters of international, national and local significance
• to undertake research, wherever possible, by forming strategic partnerships locally, nationally, and internationally with business and industry, government, professional bodies, community organisations, cultural organisations as well as other universities and research organisations.

The Faculty has research strengths in adult and vocational education, educational leadership, language discourse and policy, popular education and education and the arts.

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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 practitioner-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 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
• Institute for Information and Communication Technology
• Institute for Water and Environmental Resource Management
• Institute for Nanoscale Technology
• KURC for University Research Centre for Built Infrastructure
• KURC for University Research Centre for Health Technologies
• The Centre for Electrical Machines and Power Electronics (CEMPE)
• 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 long-standing 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 three 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 History
• Australian Centre for Public Communication.

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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’s 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 offers a range of postgraduate coursework programs designed to satisfy various career development needs. The Master of Science in Professional Computing allows IT professionals to update their skills in a variety of streams, such as computer graphics and gaming, data mining, e-business technology, human-centred design,
organisational systems and software engineering. The Master of Business in Information Technology Management program provides a unique opportunity for management education to those with substantial experience in the IT industry. The Master of Science in Advanced Computing allows recent graduates to study emerging technologies and advanced topics in IT, enabling them to apply these skills and knowledge in a research environment.

Two new postgraduate programs have been developed for introduction in 2006: the Master of Commercial Software Engineering Management, and the Master of Information Technology Management. The Master of Commercial Software Engineering Management has been designed to provide education in IT project management, software development methodology and software quality, while the Master of Information Technology Management trains students in IT management in a broader organisational context. An extended version of the Master of Science in Internetworking has also been approved for introduction in 2006, allowing students to develop multiple skills in areas such as switching and routing, systems and network management and analysis, network security, mobility and web services development, or to pursue interests in project management or software engineering.

The Faculty has considerable experience in developing and delivering specialised short courses in response to industry needs and requests from individual corporate clients. The Faculty’s strategic priority is to significantly boost its research profile, and it has been very successful in terms of attracting increased research funding from the Australian Research Council and in the enrolment of record numbers of PhD students. The Faculty is an active participant in the Cooperative Research Centre for Technology Enabled Capital Markets, and the Australian Cooperative Research Centre for Interaction Design.

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.

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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 commercial law
- international law
- international trade law
- migration and refugee law.

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FACULTY OF NURSING, MIDWIFERY AND HEALTH
The Faculty of Nursing, Midwifery and Health has approximately 1,300 students enrolled in undergraduate, postgraduate and research courses, and operates at Kuring-gai campus at Lindfield on Sydney’s North Shore and in refurbished premises at City campus, Broadway.

The Faculty provides higher education aimed at enhancing professional practice, and contributing to the creation, application and extension of knowledge for the enhancement of the health of local and international communities. The Faculty is student-focused in its processes, and values exemplary teaching and clinical practice within a learning environment that is culturally
inclusive and supportive. The Faculty is committed to collaboration with the professions, health care providers, government and the wider community in the provision of health-related scholarship, research, continuing professional education and consultancy.

The Faculty offers its highly regarded Bachelor of Nursing program, which prepares graduates for registration in NSW. In 2005, the Faculty introduced the first Bachelor of Midwifery in NSW. This program prepares graduates for registration as a midwife in NSW. The Faculty also offers a combined Bachelor of Nursing Bachelor of Arts in International Studies degree with the Institute for International Studies.

The Faculty has a strong reputation for the clinical nature of its studies. It provides a comprehensive range of postgraduate courses that accommodate the needs of nursing and related professions. The graduate courses cover the areas of clinical practice, professional studies, midwifery and health-related studies.

The Faculty also has a strong and developing research profile. Its research areas include acute care nursing, critical care nursing, aged and extended care nursing, child and adolescent nursing, mental health nursing, corrections health nursing, clinical practice development and policy research, health services management, family health and midwifery and health economics research and evaluation.

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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, and engaging 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 well-developed 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 Research Institutes, Key University Research Strengths and Faculty Research Strengths listed below.

The Faculty participates in the following UTS Research Institutes:
- Institute for 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 innovation, 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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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 exchange and Study Abroad students.

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JUMBUNNA INDIGENOUS HOUSE OF LEARNING

Jumbunna CAISER was established in 1987 as an Aboriginal student support centre and has since grown to become one of the most successful academic, research and support centres in Australia, with approximately 380 Indigenous undergraduate and postgraduate students studying throughout UTS. In 2001 Jumbunna was relaunched as Jumbunna Indigenous House of Learning (Jumbunna IHL).

The Academic Development Unit is committed to the UTS objectives to provide quality Indigenous Studies courses for all students. The Unit offers two Indigenous Studies subjects at undergraduate and postgraduate levels to students from diverse disciplines to enable the study of Indigenous issues and the more complex dimensions of cross-cultural relations in Australia. The Unit also undertakes research in curriculum, teaching and learning areas to support the professional development of Indigenous Studies programs and of the staff who teach in these areas.

Jumbunna’s Research Unit was established in January 2002 as a result of being awarded funding by the Australian Research Council for three projects undertaken in collaboration with other research centres. The Research Unit is striving to become the leading research body focused on issues that support the advancement of Indigenous peoples and communities in Australia. Every effort is made to ensure that Jumbunna’s work, once completed, is made available in a useful and accessible format, to a diverse and increasing audience.

Building on its achievements, the Research Unit will continue to:

- seek to attract Indigenous scholars and promote the Unit as an attractive intellectual environment for students at Master’s and Doctoral levels
- disseminate information and ideas arising out of the Unit’s high-quality research to a diverse and increasing audience
- support the advancement of Indigenous peoples and communities by contributing to the discourse and the development of viable and effective solutions, and
- inform the development of policy by and for Indigenous peoples.

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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.

The Director of the Unit is the leader of the University Research Group in e-learning. This cross-faculty group is working towards theorising e-learning in the higher education sector.

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INSTITUTE FOR INTERNATIONAL STUDIES

For information about the Institute for International Studies, see International Activities in Chapter 4 of this Calendar.

INSTITUTE FOR SUSTAINABLE FUTURES

The Institute for Sustainable Futures was established 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. This move provided the Institute with an opportunity to perform a sustainable office refurbishment.

The Institute conducts project-based research which helps people and organisations to choose a direction and shift towards a preferred future. 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 water corporations and international government agencies.

The Institute’s researchers are frequently invited to national and international conferences, have published more than 140 papers and have conducted 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 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 and parasitology to make fundamental discoveries on the molecular basis of how parasites:
- 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 parasites.

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 (Iict) at the University of Technology, Sydney (uts) 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.

its 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 opportunities 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 our 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 for Nanoscale Technology. 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. 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 trans-disciplinary 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 ecophysicists 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. For examples of this, visit the Institute’s website (see below).

The research institutes of UTS provide a unique opportunity for the assembly of the critical mass of expertise required to tackle key research issues within environmental and resource management. IWERM is committed to contributing to the resolution of the conflict that arises between consumptive use, sustainable yield, resource mining and conservation of environmental resources in the landscape.
The following PhD and MSc programs are linked with IWERM and are indicative of IWERM’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 run-off
- 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 (CHERE)**

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; and the overall efficiency and equity of the health system. Much of its research is supported by a multimillion dollar National Health and Medical Research Council Program Grant, the first to be awarded 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 an active Visiting Scholars program, CHERE brings many eminent researchers to Australia to share research skills, to build collaborative research links and to 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 and policy and teachers coursework in the faculties of Business, and Nursing, Midwifery and Health.

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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
- fostering the development of young UTS researchers and higher degree candidates by raising their research competencies and their commitment to research excellence.
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. This Centre enables the 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 sector. 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 IN COMMUNICATION AND CULTURE – TRANS/FORMING CULTURES

The Trans/forming Cultures Centre specialises in communication and culture in the context of social and political change. It supports research on narratives of the local, communicative technologies, and cultural interaction in Australia, 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.

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 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 devices and systems for health technology applications.

Based on several significant devices which have been developed by the core members (such as the Mind Switch, the Non-Invasive Hypoglycaemia Monitor), and numerous novel systems (such as microwave ablation of atrial fibrillation of cancer lesions, predictive test for retinal damage, liver-directed gene therapy, assistive
technology for severely disabled people, early detection of driver fatigue, early detection of breast cancer, and fusion of tomography images), an ambitious program has been developed to enhance the capacity to deal with major illnesses in terms of effective prediction, diagnosis and rehabilitation.

The focus of the group is on the study of health and disease processes, and the development of new devices and advanced techniques for the prediction/diagnosis 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 (ICAN RESEARCH)**

ICAN Research is centred on novel forms and approaches of collaborations in alliances and business networks. The Centre develops and disseminates knowledge from across disciplines that advance the theory and practice of collaborations, alliances and networks, as they occur between different organisations in and across the private, public, community and not-for-profit sectors. Its practice is based on undertaking joint research with industry, organising practitioner-relevant workshops of various kinds, consulting to client-organisations, recruiting and training outstanding research students and researchers, and publishing and promoting its research in high-quality peer-reviewed media, such as top-tier journals and conferences.

The Centre has researchers from a range of UTS faculties such as Business, Information Technology, and Law, providing a diverse, yet focused, foundation for pioneering research. It has created an environment within which both ARC and seed-funded research projects can flourish, and provides scholarships and mentoring for PhD, Master’s by Research and Honours students.

The Centre’s research initiatives are funded by the UTS Research and Innovation Office and the Faculty of Business, as well as by other competitive ARC grants and strategic research partnerships secured by the research team.

Over the years, it has become an internationally recognised centre of research excellence for developing innovative knowledge of the design, management and organisation of alliances, networks and collaborations, and its members play major roles in international academic societies (such as the Strategic Management Society and the European Group of Organisational Studies) as well as professional associations (such as the Association of Strategic Alliance Professionals). It has developed collaborative relationships with overseas research bodies, such as KUNNE in Norway, and regularly hosts visiting scholars from around the world.

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**KEY UNIVERSITY RESEARCH CENTRE FOR ORGANISATIONAL, VOCATIONAL AND ADULT LEARNING (OVAL RESEARCH)**

OVAL Research was established in 2002 as an amalgamation of two successful research groups – the Research Centre for Vocational Education and Training (RCVET) and a UTS research strength, Research in Adult and Vocational Learning (RAVL).

OVAL Research works closely with similar centres around the world to develop a robust collaborative global network of researchers. It is committed to an innovative research agenda examining changes in knowledge, learning and work.

Key areas of research and development include:

- the organisational implications of workplaces becoming sites of knowledge production and exchange
- the relationship between productivity and learning at work
- the new models of learning and work produced within a context of shifting institutional, organisational and disciplinary boundaries
- new kinds of relationships and structures between organisations and educational institutions
- management of knowledge production and transmission processes
- how contemporary organisational learning and knowledge management practices contribute to the shape of work and worker identities in a knowledge economy.

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KEY UNIVERSITY RESEARCH CENTRE: QUANTITATIVE FINANCE RESEARCH CENTRE

The mission of the 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 (ACID)

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

The CRC 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 has recently joined ACID and four projects across three faculties (Information Technology; Design, Architecture and Building; and Humanities and Social Sciences) are about to begin. These projects are in the areas of:

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

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COOPERATIVE RESEARCH CENTRE FOR CONTAMINATION ASSESSMENT AND REMEDIATION OF THE ENVIRONMENT (CRC CARE)

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 will combine industry needs, research capability and regulatory framework development.

The CRC’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 in the Institute for Water and Environmental Resource Management (IWERM) and the faculties of Engineering and Science.

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COOPERATIVE RESEARCH CENTRE FOR TECHNOLOGY ENABLED CAPITAL MARKETS

The CRC for Technology Enabled Capital Markets (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 CMCRC 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 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 Institute for Sustainable Futures. The People’s Perspectives program aims to develop an understanding of community views, needs, expectations and preferences for water services across Australia.

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COTTON CATCHMENT COMMUNITY COOPERATIVE RESEARCH CENTRE

The new 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 new 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 Community 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 (STRC)

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 the Department of Tourism, Sport and Recreation (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:

- 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 the University of Technology, Sydney, 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 goal of the Australian Centre for Independent Journalism (ACIJ) 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 journalists and academic research; continuing education for journalists, students and others; and contributions to debate in areas of concern to journalists.

Members of ACIJ, which was established in 1990, 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 Forums 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 Pro-Vice-Chancellor (Teaching and Learning), Dr Alex Byrne, opened an Olympic Studies Room at Kuring-gai campus at the same event.

ACOS will provide 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 goal of the Centre 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 facilitate innovative and flexible teaching; 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 Australian Heritage Commission and a history of the Department of Agriculture, Forestry and Fisheries Australia. Centre members are currently writing a history of the Sydney Shire of Sutherland.

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 works closely with the Professional Historians Association NSW Inc in the editing and production of the Association’s annual 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 UTS 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.

Research
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 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 industrially sponsored 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 modeling – 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 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 LANGUAGE AND LITERACY

The Centre for Language and Literacy was established in 1990 and is located in the Faculty of Education. It provides a focus for the research, curriculum development and professional development activities of staff whose major professional interests lie in the areas of language, literacy and numeracy education. Within the context of the University and Faculty Research Strategies, the Centre fosters a research culture by providing support for the ongoing development of research skills, assistance with research projects and dissemination of research outcomes. It also acts as a forum for professional and community contact through the provision of policy advice and through sponsoring conferences, seminars and workshops.

Major activities of the Centre include:
- hosting of Language in Education monthly seminar series
- hosting of MA Language and Literacy, MA Applied Linguistics and MA TESOL conference
- hosting of visiting academics
- publication of the journal Literacy and Numeracy Studies: An International Journal in the Education and Training of Adults (edited by Alison Lee, Rosie Wickert and Hermine Scheeres)
- publication of research report series, for example: Teamwork, Discourses and Literacy (Stephen Black), Worth the while (Jenny McGuirk and Rosie Wickert), Postgraduate Studies, Postgraduate Pedagogy (edited by A Lee and B Green)
- support for ongoing research in the areas of: literacy and policy; writing in academic contexts; study and analysis of spoken language; debates about literacy; knowledge about language and metalinguistic awareness; second language development; discourses of workplaces; intention in spoken language; scaffolding language and learning; and numeracy education.

In collaboration with NSW AMES and NSW DET, the Centre also runs a continuing series of professional development seminars for teachers in language and literacy fields of practice.

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CENTRE FOR LOCAL GOVERNMENT

The objective of the Centre 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, professional institutes and State and Commonwealth government departments.

The Centre is a major provider of continuing professional education for local government in New South Wales. 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 MIDWIFERY 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 and Family Health (CMFH) 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 the CMFH is a focus on a broad definition of health incorporating physical, mental and social wellbeing. We believe 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. The Centre is committed to improving health care through education and research, and works with others to integrate this into practice and policy. We believe that research incorporated into consultancy, technical advice and policy development can improve the health and social systems that support new families.

More information is available on the Centre’s website (see below).

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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 2006 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 UTS Centre for New Writing will be available from 2006 to people interested in creative writing, research and publishing. Members will 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 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, component-based development and agent technology. COTAR aims to promote and conduct research in software engineering and information systems using these leading-edge computing paradigms, as well as to provide high-quality professional development education.
**CENTRE FOR RESEARCH AND EDUCATION IN THE ARTS**

The Centre for Research and Education in the Arts (CREA) seeks to enhance the profile and professional practice of the arts – drama, dance, visual arts, design and literature – within the life of the University and the community it serves. It was established to provide the University and the community with a body which has as its prime commitment the promotion of excellence with respect to practice, education and research at both professional and student levels. The Centre is committed to the principles of lifelong learning and is active in many programs for both adults and children.

CREA has a growing international research profile with a number of PhD students in creative arts and related areas. One particular area of interest is research methodologies in the arts. Through the Faculty of Education, CREA delivers postgraduate programs in Music Therapy and the Creative Arts. The Master of Education in Creative Arts offers specialisations in Children's Literature and Literacy, Children’s Art and Youth Performance Studies. Students may choose to specialise in one area or choose subjects from across all three areas.

CREA has a publication arm, CREA Publications. The Journal of the Centre, CREArTA, has an international editorial board and an interdisciplinary focus. Submissions are invited.

**Inquiries**

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**COMPLEX SYSTEMS RESEARCH CENTRE**

The Complex Systems Research Centre (CSRC) was founded in early 2003 at the UTS School of Marketing. The Centre was created to study the characteristics, interaction and emergent behaviour of the components that make up complex systems. Systems that are complex and adaptive comprise many nonlinear units that interact locally with each other so as to produce emergent behavior of the system as a whole. Examples include organisations, biological and ecological systems, many information technology and communication systems, marketing systems and economies.

The CSRC provides a multidisciplinary focal point at UTS for different disciplines interested in complexity research, and outside the University for research, education and consulting in the area of complex systems.

The primary focus of the CSRC researchers is Train of Thought analysis, a discovery approach to the analysis of emergent patterns in the data representations of complex systems.

The CSRC has a number of key research areas of interest. Current projects include:

- patterns of negotiation: this project treats negotiation as a complex system
- semantic networks: mining of key concepts in knowledge management systems including the Web
- rainmaking as a complex system: re-analysis of cloud seeding data from the 1960s and 1970s with modern techniques and revised perspectives

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COTAR provides a research training environment for postgraduate research students and a focal point for collaborative work with industry. It aims to collect, collate and disseminate to industry the growing body of knowledge on the theoretical and practical aspects of object, component and agent technology and its use in application-domain, industrial software development, thus assisting companies in their transition to object and agent technology.

**Inquiries**

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**CENTRE FOR POPULAR EDUCATION**

The Centre for Popular Education at UTS undertakes research, consulting and teaching activities that are concerned with education and community capacity building. In particular, the Centre is intent on studying and supporting educational practice that serves the interests of people who are marginalised, and/or are engaged in advocacy, social action or community development activities.

Centre members research and teach in a range of arenas, including schools, health promotion, youthwork/education, arts and cultural development, international and community development, adult and community education, basic education, social movements and unions.

The Centre has seven major research program areas. They are:

- community leadership
- community cultural development
- pedagogy and politics of working with young people, enhancing learning in schools in low-SES regions
- school–community links
- health education and community development
- learning and action for the environment
- community organising and social action.

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• visualising collaboration: determining and visualising multidimensional empirical patterns of collaboration between and among faculties at UTS.

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NATIONAL CENTRE FOR GROUNDWATER MANAGEMENT
The National Centre for Groundwater Management is a joint enterprise between the UTS faculties of Science and Engineering, with the general aims of 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 Science and Engineering: the Master of Science in Hydrogeology and Groundwater Management; the Graduate Diploma Science in Hydrogeology and Groundwater Management; and the Graduate Diploma Engineering in Groundwater Management.

The Centre offers Master’s degrees by coursework and Graduate Diplomas in the faculties of Engineering and Science, as well as 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 development effective ways of informing the community of their legal rights and responsibilities by organising legal education seminars and workshops, and by publishing information in printed form or on the Centre’s website. 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 UTS 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 Legal Research, giving law students the opportunity to undertake research addressing community legal issues.

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.

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TAFE Legal Service Office
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TAFE Sydney Institute
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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.

Diploma of e-Learning BSB51301
Programs include:
- Developing Workplace Training Programs
- Planning e-Learning
- Becoming an e-Trainer
- Design e-Learning Multimedia
- Apply Principles of Multimedia Design
- Create a Multimedia Solution
- Implement e-Learning.

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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OTHER ORGANISATIONS

AUSTRALIAN LEGAL INFORMATION INSTITUTE (AustLII)
The Australasian Legal Information Institute (AustLII), a joint facility of the UTS and UNSW Law faculties, maintained its position in 2005 as Australia’s leading online legal research facility, and the leader in the global ‘free access to law’ movement.

AustLII now provides more than 170 Australasian legal databases, covering legislation, case law, law journals and other content from every jurisdiction. The AustLII website now receives more than 50,000 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 500 legal databases from 55 countries.

During 2005, AustLII, with some seed funding from the Australian Attorney-General’s Department, built and launched the Commonwealth Legal Information Institute (CommonLII), which provides access to legal materials from more than 50 countries of the Commonwealth.

The Australian Research Council, through its research infrastructure scheme (LIEF), is AustLII’s largest source of support, joining 25 other stakeholders including CCH Australia Limited, Thomson Legal & Regulatory Ltd, the Department of Foreign Affairs and Trade, law firms, courts and tribunals.

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AUSTRALIAN TECHNOLOGY PARK INNOVATIONS PTY LTD (ATPi)
ATPi 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
- the market validation of the products or processes
- the 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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**APACHE VILLAGE FIRST ELECTRIFICATION GROUP**

APACHE Village First Electrification Group (VFEG) is a group of UTS, community and Indigenous professionals which assists rural communities in the Asia-Pacific region to implement low-impact, environmentally responsible technology. It 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.

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

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