

## Research at Curtin

Curtin University of Technology is a leading research institution within the international market, located in Perth, a safe, cosmopolitan city with a wonderful climate, relaxed atmosphere and modern facilities. Curtin is considered as the largest and most culturally diverse of Western Australia's universities with over 41,000 students, including 17,000 international students. Our global presence is fostered through nearly 400 institutional relationships in over 40 different countries, including Universidad de Chile and Universidad De La Serena (ULS). A leader in Australian research, Curtin is either home to or participates in 77 major Australian research institutes and centres.

Curtin offers a wide variety of courses at undergraduate, postgraduate and doctoral levels across four main study areas – Business, Health Sciences, Humanities, and Science and Engineering. You can complete Curtin's English Language Bridging (ELB) course to help you gain the English qualifications you need to enter university.

The multidisciplinary and collaborative nature of Curtin's research programs is made possible not only by the University's solid research partnerships with industry, but also by the diversity of its high-impact research centres and institutes. As a result, Curtin has established five areas of research strength:

- Resources and energy
- ICT and emerging technologies
- Health and wellbeing
- Communities and changing environments
- Growth and prosperity.

These key research areas capture the multidisciplinary nature of our research programs which are accessible across all of the University's four academic faculties—Business, Health Sciences, Humanities and Science and Engineering—and give Curtin's postgraduate research students a clear advantage.

Strong, strategic partnerships and the recruitment of world-class research leaders have been important in the establishment and growth of Curtin's highly relevant research

programs. This approach enables us to provide outstanding opportunities for research students who are seeking to engage in academically rigorous and internationally relevant research.

### Resources and Energy

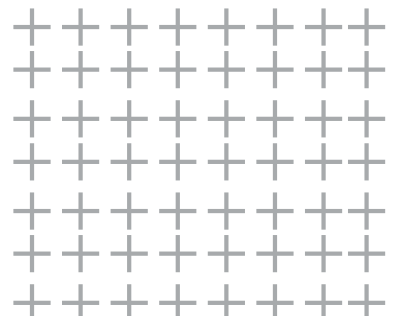
Curtin postgraduate research students interested in top-level careers in resources and energy are ideally positioned to take advantage of the unprecedented global demand for applied research. Curtin's research capabilities in resources and energy-related fields are comprehensive and well-recognised, and the University attracts many valuable strategic partnerships with industry—leading to sought-after postgraduate opportunities in high-impact research programs. These include hydrocarbon and minerals exploration, engineering, environmental science, applied chemistry, materials science, geoscience and nanochemistry, mineral processing and resource economics.

Excellent prospects for industry-supported projects are also found in minerals exploration and processing. Major industry groups, including Placer Dome Pacific and BHP Coal, are supporting research at the Centre for High Definition Geophysics that is developing new seismic technologies to detect mineral resources. The mining industry also maintains high demand for developments in hydrometallurgy that enable the viability of low-grade ores or untapped mineral deposits.

### ICT and Emerging Technologies

The exploration and development of next-generation information and communication technologies offers exciting possibilities for research students, as Curtin continues with initiatives across areas as diverse as radio astronomy, spatial science, wireless telecommunications, e-business and digital ontologies.

Curtin's Institute for Multi-sensor Processing and Content Analysis is a sought-after location for postgraduate work. The Institute's advanced research, in collaboration with industry partner Digital Technology International, is working with intelligent systems that improve industrial efficiency and enhance security in complex environments such as public transport.



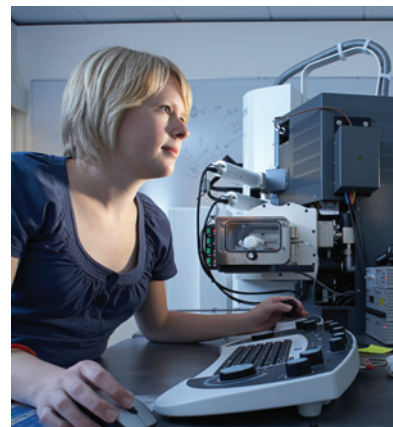
## Facts about research at Curtin

Research income for the university in 2007 was almost \$57 million with approximately 1,800 students undertaking research at Curtin.

Curtin is providing more than \$60 million for new infrastructure and for research programs investigating evidence-based solutions to several challenges in various disciplines.

All Curtin research students receive an annual allowance for consumables, fieldwork, data processing, local travel and attendance at conferences.

The university is home to more than 77 research institutes and centres.



## Health and Wellbeing

Curtin's School of Biomedical Sciences undertakes high quality applied research with a principle aim to create new knowledge that will contribute to the well being of the community.

Graduates from the School have a reputation for excellence and are well received in today's career markets.

Biomedical sciences research at Curtin maintains a strong profile within the field. It is involved in the education and training of medical and biomedical scientists and technicians across eight major disciplines—microbiology, biochemistry, molecular biology, immunology, haematology, clinical cytogenetics, histopathology and human biology.

The latest in facilities and technology are available on campus ensuring a high quality research environment in which to study.

## Communities and Changing Environments

Sustainable development is now recognised as one of the core concerns of governments and communities worldwide. Curtin recently consolidated its research strengths and leadership in this area by establishing the Australian Sustainable Development Institute (ASDI). Through ASDI, Curtin offers visionary research opportunities in sustainable development, built environment, climate change, environmental ecosystems, biodiversity, sustainable tourism, and sustainable resource processing.

The Curtin University Sustainability Policy Institute is also making a critical contribution with research that serves business, government and the community. Complementing this work, the Curtin Research Centre for Stronger Communities offers highly relevant, multidisciplinary projects that investigate the physical, social, economic and cultural conditions of communities.

## Growth and Prosperity

Research and postgraduate opportunities within Curtin Business School (CBS) continue to expand. Curtin has appointed world-renowned researchers to lead programs in

Economics and Finance, and there has been an increase in both regional and international demand for knowledge that informs and evaluates the development of new business strategies and public policy.

CBS has built an international reputation for supporting dynamic and focused research teams with expertise in e-commerce and business intelligence. Research focuses on e-commerce and internet as well as universal access and equity in telecommunications – all of these being recognised areas of research strength.

More details about research at Curtin can be found in our R&D brochure, which is accessible at:

<http://international.curtin.edu.au/booklets/index.cfm>

Please use the email addresses below to contact the faculty or subject area that's relevant to your area of research.

### Curtin Business School

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### Health Sciences

E: [researchstudents@health.curtin.edu.au](mailto:researchstudents@health.curtin.edu.au)

### Humanities

E: [hum-postgrad@curtin.edu.au](mailto:hum-postgrad@curtin.edu.au)

### Science and Engineering

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