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2017  
University  
Profile

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UNIVERSITY  
OF WOLLONGONG  
AUSTRALIA

Stands  
for purpose

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# Stands for purp

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In this time of unprecedented change universities have an obligation to lead and contribute to society. This is why we are committed to new and emergent industries and future jobs.

Our courses and research capacity are geared towards excellence at a global level. We are focused on creating a lasting impact that contributes to the needs of communities and empowers people to achieve their aspirations.

Our ambition for our graduates is that they will be ethical, agile thinkers who are competitive in a global economy. And that their experiences at UOW will shape their sense of self as well as their future career.

University of Wollongong.

OSE  
Stands for purpose.



# This is who we are

Universities are key to the national innovation agenda, and share an obligation to be at the forefront of contemporary policies and society. This is why we are focused on producing quality, accessible research through highly cited and esteemed researchers. We will grow our innovation ecosystem and pursue the uptake of disruptive technologies that deliver positive economic impacts.

We must also anticipate the nature of emergent industries and future jobs: graduates need to be ethical, mobile, technologically literate and ready for multicultural workplaces.

As international mobility increases, competition for the best academic and professional staff will also intensify. We will attract the best by unleashing our staff's performance, reducing complexity and optimising professional achievements.

We are a young and vibrant university with undiminished ambitions, with a strong sense of who we are, and where we are going.

The University of Wollongong stands for purpose.



Professor Paul Wellings CBE  
Vice-Chancellor

## Top 1%

for graduates as rated  
by global employers<sup>1</sup>

## Top 2%

of universities in the world<sup>2</sup>

## Top 20

12<sup>th</sup> best modern university  
in the world<sup>3</sup>

## 5-Stars

Overall quality  
Student retention  
Learner engagement  
Learning resources  
Skill development  
Student support  
Teaching quality<sup>4</sup>

## 138,594

graduates from 175 Countries

# Principal Officers

Our leadership team is the guiding force behind UOW's commitment to progress, accountability and excellence.

# Making a difference: Valuing the role of higher education



**Chancellor:**  
**MS JILLIAN BROADBENT AO**

After a career in banking in Australia and overseas, Ms Jillian Broadbent became a member of the Board of the Reserve Bank of Australia from 1998-2013. She has served on the boards of Coca-Cola Amatil Ltd, ASX Ltd, Special Broadcasting Service (SBS), Woodside Petroleum Ltd, Westfield Management Ltd and Qantas Airways Ltd, and was Chair of the National Institute of Dramatic Art (NIDA). Ms Broadbent is currently a Director of Woolworths Ltd and Chair of the Clean Energy Finance Corporation. In 2001 she was a recipient of the Australian Centenary Medal in recognition of her contribution to the community and in 2003, she was made an Officer in the Order of Australia for service to economic and financial development in Australia and to the community through administrative support for cultural and charitable groups.



**Deputy Chancellor:**  
**MR NOEL CORNISH AM**

Mr Noel Cornish was appointed to the University Council in February 2006 by the NSW Minister for Education and was elected Deputy Chancellor in 2015. Mr Cornish completed his BSc (Metallurgy) and MEngSc at Newcastle University. He has also studied at the University of Michigan Business School. His former roles include Chief Executive of BlueScope Steel Ltd Australian and New Zealand steel manufacturing businesses, and President of Northstar BHP LLC in Ohio USA. Mr Cornish is currently Chairman of Snowy Hydro Ltd, Chairman of IMB Ltd, a Director of Forestry Corporation NSW and a Non-Executive Director on the UOWE Board. He is also the National Past President of Ai Group.



**Vice-Chancellor:**  
**PROFESSOR PAUL WELLINGS, CBE**

Educated in the UK, Professor Wellings' career experience includes a NERC research fellowship and senior positions at the CSIRO and Department of Industry, Science and Resources. Prior to his current role, he was Vice-Chancellor of Lancaster University from 2002–2011. Professor Wellings was appointed Commander of the British Empire (CBE) in the 2012 Queen's Birthday Honours list for services to higher education. He has extensive board experience including with the Australian Nuclear Science and Technology Organisation (ANSTO), the Australian Centre for International Agricultural Research (ACIAR), and some of the UK's peak education and research bodies. He is currently a board member of the University of Wollongong in Dubai, a Trustee of Guangdong University of Foreign Studies (GDUFS), China, and a director of the Illawarra Health and Medical Research Institute (IHMRI). Professor Wellings also serves on the Australian Research Council (ARC) Advisory Committee, the NSW Innovation and Productivity Council, the Global Foundation Advisory Council and the Bundanon Trust Board.

Providing an exceptional learning and student experience



Deputy Vice-Chancellor  
(Academic):

**PROFESSOR JOE CHICHARO**

Professor Chicharo has a distinguished academic and research track record, having published more than 200 refereed papers. His research contributions are well cited and he has been the recipient of a number of best paper prizes, such as by the Institute of Electrical and Electronics Engineers (IEEE). Professor Chicharo has also served as the inaugural President of the Australian Council of Deans of Information and Communication Technology. He has served as Chair with organisations, including Excellence in Research Australia (ERA) and the Australian Research Council (ARC), as Editor with IEEE, and is an external examiner for MSc (Eng.) programs at the University of Hong Kong.

Celebrating partnerships and building connections



Deputy Vice-Chancellor  
(Global Strategy):

**PROFESSOR ALEX FRINO**

Professor Alex Frino is a distinguished financial economist who fosters the interaction of business with academe. He is an alumnus of UOW and Cambridge University, and a former Fulbright Scholar. He is one of the best published financial economists in the world with over 100 papers in leading scholarly journals. He has won over \$10 million in competitive research funding and is frequently cited in the global press. Professor Frino was previously Chief Executive Officer of the Capital Markets Cooperative Research Centre Ltd and has held visiting academic positions at leading Universities in Italy, New Zealand, the UK and the United States. He has also held positions with leading financial market organisations, including the Sydney Futures Exchange, Credit Suisse and the Commodity Futures Trading Commission in the USA. He is regularly called upon to act as an independent expert witness in major Australian court cases and has acted as a consultant to many large Australian listed companies.

Addressing regional, national and international needs



Deputy Vice-Chancellor  
(Research and Innovation):

**PROFESSOR JUDY RAPER**

Professor Judy Raper brings extensive management and research administration experience to UOW. Her prior service includes the ARC Engineering and Earth Sciences Panel, Dean of Engineering at the University of Sydney, and Division Director at the National Science Foundation in Washington DC. In 2012, Professor Raper was named by the Australian Financial Review and Westpac as one of Australia's '100 Women of Influence', and in 2015 was named in the 'Top 100 Influential Engineers' by Engineers Australia for the third year running. Professor Raper is a Fellow of the Academy of Technological Sciences and Engineering (ATSE) and an Honorary Fellow of Engineers Australia. She currently serves on three incorporated boards: Unimutual Ltd, Excellerate Australia, and the Illawarra Health and Medical Research Institute (IHMRI).

## Embracing change and opportunity



**Chief Administrative Officer:**  
**MS MELVA CROUCH CSM**

Ms Melva Crouch has extensive experience as a logistics and corporate support executive in complex organisations. She commenced her career with the Australian Army as a logistics officer, serving for 23 years in a variety of Army and joint Defence roles culminating with the position of Head of Logistics and Administration at Joint Operations Command at the rank of Colonel.

Ms Crouch left the Army in 2005 to join the United Nations, subsequently providing logistic support to peacekeeping missions in Democratic Republic of Congo, Liberia and Western Sahara. After five years in the field, she moved to New York to take on more strategic administrative roles with the United Nations. Prior to joining the University of Wollongong she held the position of Director of Facilities and Commercial Services Division in the Department of Management, managing the office and conference facilities of the United Nations Headquarters and providing common support functions to the Secretariat.

## Investing in our people and places



**Chief Finance Officer:**  
**MR DAMIEN ISRAEL**

Mr Damien Israel is an experienced senior executive committed to delivering sustainable financial outcomes and commercially viable business developments. Prior to joining UOW, Mr Israel held a number of senior executive posts within health services, involving resource management, information technology, capital planning and delivery, and organisational change management. He is a Fellow of CPA Australia, holding a Bachelor of Business and Master of Accounting. As Chief Finance Officer, Mr Israel ensures effective and strategic management of UOW resources and assets. He has oversight of accounting and finance, internal audit, risk management, business assurance, information technology, commercial and infrastructure development, public-private partnerships, business process improvement, and planning and management information. Mr Israel is executive lead for the development of the University's Innovation Campus.

# Driven by discovery

From 3D bioprinting and materials engineering to medicinal chemistry and social transformation, our research is solving complex real-world problems.



# A diverse approach

At UOW we recognise that the search for solutions to the world's challenges must be a global one.

Whether addressing climate change, modern medical issues or sustainable food sources, we form alliances with the best minds across the globe. Our strong research partnerships with world-renowned organisations and industry work towards building a sustainable and equitable future for the 21st century.

Recently, we have introduced a major research initiative – the UOW Global Challenges Program – to harness the expertise of world-class interdisciplinary researchers to transform lives and regions.

Locally, our Innovation Campus (iC) is an award-winning research and commercial precinct. iC is home to a number of UOW's leading research institutes working in the development of 'intelligent' innovative materials with the potential to regenerate damaged human nerves, the development of superconductors that make energy transmission more efficient, new techniques for sustainable building design, and maritime law and security. iC also houses UOW's iAccelerate initiative, which is designed to support students, staff and the community to build an innovation ecosystem that fosters new talent.

UOW has built an international reputation for world-class research and is proud to be among the best modern universities in the world. We are, and always have been, about research excellence.

## RESEARCH EXCELLENCE

98% of UOW disciplines

rated 'at world standard' or higher  
(Excellence in Research for Australia 2015)

“

*Research at UOW crosses international and disciplinary boundaries to deliver results. The results of our overseas partnerships underpin the University's reputation for research excellence.”*

**Professor Judy Raper,**  
Deputy Vice-Chancellor  
(Research and Innovation)

## MAJOR RESEARCH ENTITIES

- Australian Institute for Innovative Materials (AIIM)
- Early Start
- Illawarra Health & Medical Research Institute (IHMRI)
- SMART Infrastructure Facility
- Sustainable Buildings Research Centre (SBRC)



# Global Challenges, interdisciplinary solutions

UNIVERSITY OF WOLLONGONG

Over the coming decades we will face many challenges and transformations in the way we live. The Global Challenges Program recognises the interconnected nature of these transformations.

The Program is designed to encourage and develop creative and community-engaged interdisciplinary research that will help drive social, economic and cultural change in our region, and will be translatable across the globe.

Jakarta, Manchester, Seoul, San Francisco, Ho Chi Minh City, Wollongong: Global Challenges projects are having an impact in our own backyard and around the world. The Global Challenges Program is building a strong research network comprising university and industry organisations in Australia and across the globe.

UNIVERSITY PROFILE

**GLOBAL CHALLENGES** currently has

73 Active Projects

\$2.8 Million

**INVESTED** in research funding

Projects have attracted

\$19 Million

**IN EXTERNAL FUNDING**

A five-fold return on investment

41%

**OF GLOBAL CHALLENGES**

projects are led by female researchers

“

*The Global Challenges Program was born of the belief that interdisciplinary research is vital to address the truly significant problems the world faces. The integrated nature of major challenges of environment, economy, health and society will need researchers coming together from diverse backgrounds finding ways to transfer knowledge, methodologies and insights.”*

**White Paper:  
Challenge-Led Interdisciplinary  
Research Programs**

Tamantha Stutchbury, Chris Gibson,  
Lorna Moxham, Clive Schofield,  
Geoffrey Spinks

# Transforming lives & regions

What does transformation look like?  
What kind of world do we want  
to shape for the future?

## **LIVING WELL, LONGER**

How can we ensure that a long life is also a secure and healthy life – physically, mentally, socially and economically?

## **MANUFACTURING INNOVATION**

What should we be making in Australia and how should we be making it?

## **SUSTAINING COASTAL AND MARINE ZONES**

How can we ensure the protection and management of our precious coastal and marine environments?

# Partnerships & collaborations

At UOW we understand that to truly make a difference to the world our research often needs to be conducted with a global perspective.

Our global connections are strengthened by our membership of the University Global Partnership Network (UGPN), which is focused on creating a foundation for international collaboration. This enables academics and students from some of the world's top universities to work together on issues of global importance. The UGPN consists of The Universidade de São Paulo, North Carolina State University, the University of Surrey and the University of Wollongong.

UOW has also developed key research partnerships and collaborations with other universities, institutions, governments and corporations from around the world.

## OUR INTERNATIONAL RESEARCH PARTNERSHIPS INCLUDE:

- A world-first collaboration led by UOW's SMART Infrastructure Facility, in partnership with BPBD DKI Jakarta and Twitter Inc, is having a huge impact on how Jakarta's citizens and government agencies prepare for and respond to severe monsoonal flooding. The crowd-sourcing urban data collection project PetaJakarta.org, uses social media to promote the resilience of cities to extreme weather events as a process of climate adaptation.
- Engineers from the Institute of Superconducting and Electronic Materials are working with Chinese steelmaker Baosteel and other partners to improve the energy efficiency of steel plants by developing new ways to capture heat from the steel-making process and convert it to usable energy.
- Medical bionics scientists from the Intelligent Polymer Research Institute working with Hanbat National University in South Korea are building expertise in energy conversion and storage systems for medical bionics.
- Centre for Medical Radiation Physics researchers collaborated with NASA scientists to develop instrumentation for measuring the radiobiological effects of cosmic radiation on humans, and are working with leading radiation oncology institutes around the world on groundbreaking cancer treatments.
- Centre for Archaeological Science experts are working with Indonesian archaeologists on one of the most significant palaeoanthropological discoveries of modern times – the unearthing of a previously unknown species of tiny humans on the island of Flores who had co-existed with modern humans until relatively recently. The world now knows the specimen uncovered by its nickname 'the Hobbit'.

# Research & impact



## 270 INSTITUTIONS

Academic / Research collaborations (formal links)

## 272 INSTITUTIONS

Study abroad and student exchange

## 6,332 UOW STUDENTS

have studied overseas on exchange programs

## 12,041 STUDY ABROAD AND EXCHANGE STUDENTS

have come from another university to study at UOW

## RESEARCH INCOME & GRANTS

**\$53.99** Million

**HERDC RESEARCH INCOME RECEIVED - 2016**  
(Higher Education Research Data Collection)

**\$36.13** Million

**RESEARCH BLOCK GRANT ALLOCATION - 2016**  
(Source: Australian Government)

**\$48.62** Million

**ARC & NHMRC GRANTS INCOME AWARDED**  
(Australian Research Council & National Health & Medical Research Council grants announced in 2016)

Including:

**\$33.75** Million

ARC Centre of Excellence for Australian Biodiversity and Heritage

**\$2.13** million

ARC Linkage Projects announced in 2016

**\$5.34** million

ARC Discovery Project funding announced in 2016

**\$1.76** million

NHMRC Project Grants announced in 2016

**\$4.27** million

ARC DECRA & Future Fellowships announced in 2016  
(DECRA: Discovery Early Career Researcher Awards)

## RESEARCH IMPACT

**2,699**

**TOTAL UOW SCOPUS PUBLICATIONS IN 2016**  
(abstract and citation database)

**1,398**

**UOW GLOBAL COLLABORATIONS IN 2016**  
(including publications with international co-authors, grants with international investigators and contract research with international funding partners).

# An environment of success

We are investing to enhance our campuses and align our facilities to changing centres of population and emerging research priorities.

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# Campus Master Plan

## PUTTING THE PLAN INTO ACTION

The 2016–2036 Wollongong Campus Master Plan is underway as we build on the high-quality landscape and public realm of the existing campus, while improving its relationship to the surrounding community and connections to Wollongong and the region.

Addressing the University’s vision and goals for future growth over the next 20 years, the Master Plan will focus on several key areas of consideration:

- Academic facilities and student/staff populations for future growth
- Facilities for students and staff, such as accommodation, cafes, sports, retail, and student services
- Open space and public amenity
- Our relationships with surrounding neighbourhoods and communities
- Environmentally sustainable growth
- Vehicle movements, including car access, parking and servicing
- Pedestrian pathways, access, signage and security
- Cycle access and storage
- Public transport facilities

“

*This Master Plan will help ensure our physical environment responds to changing academic and research needs and a growing student population. It guides the management and development of our properties.”*

**Melva Crouch CSM,**  
Chief Administrative Officer

# Expanding student accommodation

## **BANGALAY OPENS FOR SESSION ONE IN 2017**

Student accommodation at UOW is undergoing a major expansion and transformation. Session one of 2017 saw the opening of Bangalay. Located on Northfields Avenue, just across the road from the main campus, this residence features modern facilities, landscaped outdoor communal areas, recreation areas, study spaces and meeting facilities.

Currently under construction, another new residence will open as a part of Kolloobong Village for session one 2018, adding a further 800 beds to UOW's accommodation offering.

These developments will take the number of beds the University can provide to students to more than 2,500, while transforming the Wollongong campus into a vibrant destination of choice for students.

# Facilities



## MOLECULAR HORIZONS

The University's \$80 million Molecular and Life Sciences facility, Molecular Horizons, will be a world-leading research facility dedicated to illuminating how life works at a molecular level and solving some of the biggest health challenges facing the world.

The centrepiece of the University's molecular science initiative will be the \$7 million ultra-high resolution Titan Krios cryo-electron microscope, one of only a handful in the world and only the second of its kind in Australia.

The extensive suite of technologies, including the Titan Krios microscope, that will be housed at the Molecular Horizons facility will attract scientists from all over Australia and the world to work collaboratively, using this rare and vital technology.

The Molecular Horizons facility will house around 200 researchers, including a number of prominent research teams led by Professors Nick Dixon, Antoine van Oijen and Mark Wilson. It will include research facilities from single-molecule to molecular and cellular imaging, including flow cytometry, electron microscopy, fluorescence microscopy and nuclear magnetic resonance (NMR).



## EARLY START

Officially opened in July 2015, UOW's \$44 million Early Start initiative represents a new way of thinking about how universities can share their intellectual capital and research with the community, and how technology can bring about better outcomes for children. Early Start is transforming lives through education to reduce current gaps in inequality. By 'investing' in the earliest years of life, Early Start is working to create a landscape for learning and social change that is markedly different to the image traditionally associated with higher education.

With state-of-the-art teaching, research and community engagement facilities, utilising enhanced technologies, the Early Start building acts as a hub connecting to a network of partner centres in regional, rural and remote communities across NSW.

Within the building is the Early Start Discovery Space, a public, hands-on creative learning space specifically designed for children from birth to 12 years and their accompanying families, carers, educators and teachers.

[earlystart.uow.edu.au](http://earlystart.uow.edu.au)



### SCIENCES TEACHING FACILITY

The Sciences Teaching Facility is a \$35 million teaching space built to revolutionise the way sciences are taught at UOW. From the first year of their degree, our students benefit from exposure to industry standard equipment and methodologies. The Facility brings together up to 460 students at a time, with laboratories for biology, chemistry, and earth and environmental sciences, alongside lecture halls that can accommodate classes of up to 240 people. These capabilities are extended even further by networked learning technologies. The Facility is one of the latest in networked digital wireless microscope technology from renowned scientific technology supplier Leica.



### SMART INFRASTRUCTURE FACILITY

The world is changing, not only because of technology and climate change, but also the impact of an ageing population. This means the way we plan and manage infrastructure will need to change too.

To address this challenge SMART brings together experts from fields such as transport, water, energy, economics, and modelling and simulation in a state-of-the-art facility to support this important research agenda.

As an international leader in applied infrastructure research, SMART is helping to address the challenges of infrastructure planning and management both now and into the future.

[smart.uow.edu.au](http://smart.uow.edu.au)



### ILLAWARRA HEALTH & MEDICAL RESEARCH INSTITUTE

The Illawarra Health and Medical Research Institute is a joint initiative of the University of Wollongong and Illawarra Shoalhaven Local Health District (ISLHD).

Based in a purpose-built facility at UOW's main campus, IHMRI's goal is to foster, support and grow health and medical research in the Illawarra. It aims to connect and supporting academic and clinician researchers to address problems of relevance to the region and the world.

The Institute provides research leadership, coordination, infrastructure and facilities to 600 affiliated researchers and students who are either based in IHMRI's headquarters or other UOW and ISLHD centres around the region. All contribute to the Institute's research program, which has three core themes: Diagnostics and Therapeutics; Chronic Conditions and Lifestyle; and Mental Health and the Ageing Brain. The program also has an Illawarra Insights cluster focused on population health.

[ihmri.uow.edu.au](http://ihmri.uow.edu.au)



## INNOVATION CAMPUS

UOW's Innovation Campus (iC) is a 33-hectare research and technology precinct located in Wollongong. It encourages innovative organisations from around the world to co-locate with UOW's leading research institutes in a collaborative campus environment.

iC is already home to more than 15 organisations, including international technology firm NEC Australia, US IT company Telecommunication Systems Inc. and Chinese IT provider Pactera. These globally recognised companies work alongside the Intelligent Polymer Research Institute, and the Institute for Superconducting and Electronic Materials, the Sustainable Buildings Research Centre, the Australian National Centre for Ocean Resources and Security, and the Centre for Health Initiatives. iC is also home to iAccelerate, the region's first business incubator and accelerator driving the business and innovative ecosystem on campus.

The Innovation Campus is a seven-minute drive from UOW's Wollongong campus, and is linked to UOW and Wollongong's CBD by a free shuttle bus.

[innovationcampus.com.au](http://innovationcampus.com.au)



## iACCELERATE

iAccelerate is a University of Wollongong initiative that helps grow new businesses that contribute to building a true 'innovation nation'.

iAccelerate is designed around a robust educational framework, formalised business acceleration monitoring and one-to-one mentoring. The three-storey, 4,000-square-metre iAccelerate Centre at UOW's Innovation Campus will feature 'plug and go' expandable space for more than 280 entrepreneurs.

The program offers startups the unique opportunity to partner with a university that is educating 30,000 students, employs more than 2,000 staff, and boasts a significant portfolio of research interests and partners. In its first five years, iAccelerate is anticipated to generate more than 500 full-time jobs (including within its supported startups) and more than \$100 million direct added value for the local economy.

iAccelerate utilises a multi-faceted approach to accelerating sustainable business growth to deliver the greatest economic impact, propelled by the \$10 million iAccelerate seed fund. We offer a two-stream program with up to a three-year incubation period – unique in the Australian startup landscape.

[www.iaccelerate.com.au](http://www.iaccelerate.com.au)



## AUSTRALIAN INSTITUTE FOR INNOVATIVE MATERIALS

The Australian Institute for Innovative Materials (AIIM) is an advanced materials research, prototyping and device facility located at the University of Wollongong's Innovation Campus.

AIIM houses two of the University's flagship research groups: the Institute for Superconducting and Electronic Materials, focussing on materials for energy technologies, electronic devices and leader of the AutoCRC vehicle electrification program; and the Intelligent Polymer Research Institute, which leads the Australian Research Council Centre of Excellence for Electromaterials Science, is part of the Polymers CRC and is driving development of nanomaterials for health and medical applications. AIIM also houses the Electron Microscopy Centre, which includes advanced microscopy and characterisation equipment.

The new materials developed at AIIM are already being used to meet some of society's greatest challenges. Advanced production, prototyping and device development facilities allow research to extend to the development of novel processing, manufacturing and fabrication methods to help bridge the gap to commercialisation.

[aiim.uow.edu.au](http://aiim.uow.edu.au)



### SCIENCE CENTRE & PLANETARIUM

Around 50,000 people visit UOW's Science Centre and Planetarium at the Innovation Campus every year. Its interactive exhibitions, science shows, planetarium and observatory with a research-quality telescope, make it one of Wollongong's most popular indoor tourist attractions. The visitors include around 15,000 school students, many from outside the area.

First opening its doors in 1989, the Centre runs educational science and planetarium shows, and engages with the local community through its volunteer and internship programs. An army of volunteers, including retired engineers and technicians, maintain the exhibits, and student interns act as guides for visiting school groups.

[sciencecentre.uow.edu.au](http://sciencecentre.uow.edu.au)



### AUSTRALIAN NATIONAL CENTRE FOR OCEAN RESEARCH & SECURITY

The Australian National Centre for Ocean Research and Security (ANCORS) is a unique interdisciplinary research and education centre within UOW's Faculty of Law, Humanities and the Arts. It plays a key global role in international ocean management in vital areas, including maritime security, offshore jurisdiction and enforcement, ocean law, fisheries management, and the protection of the marine environment.

Since its establishment in 1994, ANCORS has run regular capacity-building specialist courses for navies, coast guards, policymakers and managers from maritime nations across the Asia-Pacific, Africa and, more recently, the Caribbean and Latin America. It also provides consultancy services to many governments on a range of ocean law, policy and management issues, including maritime boundary disputes, management of ocean resources, such as fisheries, and policy advice on critical maritime issues such as maritime security, ship safety and marine pollution.

[ancors.uow.edu.au](http://ancors.uow.edu.au)



### SUSTAINABLE BUILDINGS RESEARCH CENTRE

UOW's Sustainable Buildings Research Centre (SBRC) is an exciting new addition to the Innovation Campus, and a showpiece of innovation and research excellence.

SBRC researchers' projects include developing sustainable building technologies for residential and commercial applications, analysing and improving thermal design for buildings to reduce the need for using energy for heating and cooling, renewable energy technology application, and developing control and sensor technology to improve building performance.

The SBRC building was awarded a six Star Green Star Education Design rating and is on track to be the first Australian building certified by the Living Building Challenge – the world's most advanced measure of sustainability in the built environment. The Living Building Challenge comprises seven performance areas: site, water, energy, health, materials, equity and beauty. As part of meeting the Living Building Challenge, the SBRC is an ultra-low energy building with natural ventilation and carefully-selected materials, many of which have been recycled and/or sourced locally.

[sbrc.uow.edu.au](http://sbrc.uow.edu.au)

# Finding

# why,

# one

# student

# at a time

Education at UOW is a bond between student and teacher, and a commitment to mutual excellence. Our expertise uplifts our students and helps them find their purpose. Their achievements in the world complete the University's mission of transforming society for the better.



“

I've always been into health promotion ever since I was little. I grew up around sport, playing basketball and netball and all different kinds of sports. It really gave me an outlet. I want to encourage young Indigenous people to participate in sport and physical activity.

**INDI**  
BACHELOR OF PUBLIC HEALTH  
(HEALTH PROMOTION)



“

I chose to study nursing because I've always been passionate about biology. I had a personal experience in a hospital setting and discovered the impact that the nurses had. I want to create a genuine human connection, when people are at their most vulnerable.

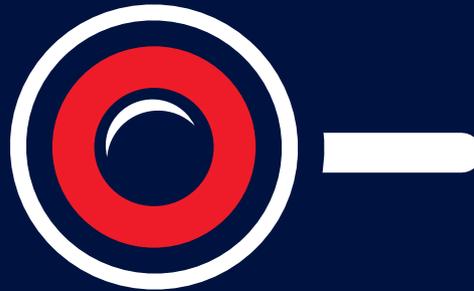
**MIA**  
BACHELOR OF NURSING



“

People grow up saying "I want to be a firefighter, I want to be a policeman". I just knew that I wanted to study maths. What I love about maths is that there's only one right answer. You do all your calculations and your working out, arrive at an answer and it's either correct or it's not. Life's just a big mathematical problem and I want to solve it.

**AUDI**  
BACHELOR OF MATHEMATICS AND  
FINANCE (DEAN'S SCHOLAR) HONOURS



“

Marketing is a field that is so broad and ever-changing. That's what inspires me — the fact that it's always growing and with that I can grow also. The big dream for me is to establish a successful clothing label. I want to use business to make my mark on the fashion industry.

**JOSEPH**  
BACHELOR OF COMMERCE  
(MARKETING AND PUBLIC RELATIONS)



“

I've always enjoyed the creative outlet of writing. I was completely in love with environmental science in high school and I'm an environmentalist myself, so those things really matter to me. I definitely want to shed light on environmental issues. I want to help people care about the environment again.

**SIMONA**  
BACHELOR OF JOURNALISM,  
BACHELOR OF SCIENCE (GEOLOGY)



“

I'd like to do some work in the developing world. I'm currently doing a subject through the University, where we're going to Africa to implement a water supply system. I want to use engineering to contribute to the sustainability and equality of all those living within the world.

**DAN**  
BACHELOR OF ENGINEERING (SCHOLAR)  
(CIVIL AND ENVIRONMENTAL)

# Transforming curriculum

The Curriculum Transformation Project (CTP) is an ambitious four-year plan to build on and enhance UOW's national and international reputation for top quality teaching and learning.

A component of the CTP is the implementation of the UOW Curriculum Model. By implementing a set of key practices into each UOW course every student will have a learning experience that is:

## TECHNOLOGY ENRICHED

The curriculum optimises the use of technology in its delivery and content, and prepares graduates to be digitally literate and technologically-engaged professionals.

It looks at both key classroom practices as well as the technological tools that are needed to ensure high quality, flexible, student-centred learning.

## INTELLECTUALLY CHALLENGING

We challenge UOW students to think broadly and critically within and outside their disciplines. Learning activities and flexible curriculum structures empower students to be adventurous in their learning.

## RESEARCH/ENQUIRY BASED

We aim to induct students into a set of processes that include empirical, interdisciplinary, practice-based and creative research activity, to develop connections between learning, academic research, critical enquiry and problem-solving.

## REAL-WORLD FOCUSED

We engage students with key skills that model real-world practice, to bring the world into the classroom and take students out into the community or profession.

UOW is recognised nationally and internationally as a leader in teaching and learning innovation and student experience. In 2016, UOW was ranked equal second nationally for the number of Citations for Outstanding Contributions to Student Learning awarded to its staff. The university also received a national award in 2016 for Programs that Enhance Learning\*. By the end of 2018, all coursework programs will be reviewed and transformed to ensure they incorporate the themes, principles and transformative practices of the UOW Curriculum Model.

\*2016 Australian Awards for University Teaching-Innovation and Flexibility in Curricula, Learning and Teaching.

# Our faculties



Executive Dean of Business:  
**PROFESSOR  
CHARLES ARENI**

**Business**  
[business.uow.edu.au](http://business.uow.edu.au)

The Faculty of Business advances business-related knowledge and promotes responsible leadership and sustainable business practices that contribute to a stronger society and economy.

We offer a first-rate learning experience that seeks to develop professionals, managers and business leaders who are independent thinkers and creative problem-solvers that are in high demand among employers. Our postgraduate programs are offered through our graduate school, Sydney Business School, which is a QS-ranked, top-200 business school, placed in the top five business schools in Australia and 22nd in the Asia-Pacific region (2014/2015). We conduct innovative and applied research in the fields of accounting, economics, finance, management and operations.

## OUR RESEARCH

- Australian Health Services Research Institute
- Centre for Human and Social Capital Research
- Centre for Contemporary Australasian Business and Economics Studies
- Centre for Responsible Organisations and Practices

## OUR SCHOOLS

- Sydney Business School
- Accounting, Economics and Finance
- Management, Operations and Marketing



# Engineering and Information Sciences

[eis.uow.edu.au](http://eis.uow.edu.au)



Executive Dean:  
**PROFESSOR CHRIS COOK**



The Faculty of Engineering and Information Sciences will advance our understanding of the intersection between natural phenomena and human technology, and use this knowledge to sustainably improve our environment and society.

The Faculty of Engineering and Information Sciences has a world-class reputation for excellence in research, strong collaborations with industry and government partners, and innovative approaches to teaching and learning.

## OUR RESEARCH

- Advanced Manufacturing Technologies
- ARC Centre of Excellence in Geotechnical Science and Engineering
- Australian Power Quality and Reliability Centre
- Australian Steel Research Hub
- Centre for Business and Social Innovation
- Centre for Infrastructure Protection and Mining Safety
- Centre for IT-enabled Transformation
- Centre for Medical Radiation Physics
- Decision Systems Laboratory
- Energy Pipelines CRC - Rail Manufacturing CRC
- Engineering and Mathematics Education Research Group
- Engineering Asset Management Group
- Engineering Manufacturing
- Engineering Materials
- ICT Research Institute

- Institute for Mathematics and its Applications
- Mining Research Centre
- National Institute for Applied Statistical Research Australia
- Research Centre for Geomechanics and Railway Engineering

## OUR SCHOOLS

- Civil, Mining and Environmental Engineering
- Computing and Information Technology
- Electrical, Computer and Telecommunications Engineering
- Mathematics and Applied Statistics
- Mechanical, Materials, Mechatronic and Biomedical Engineering
- Physics

## ENTITIES

- SMART Infrastructure Facility
- Sustainable Buildings Research Centre

# Law, Humanities and the Arts

[lha.uow.edu.au](http://lha.uow.edu.au)



Executive Dean:  
**PROFESSOR  
AMANDA LAWSON**

The Faculty of Law, Humanities and the Arts will improve our understanding of human thought, culture and art, to advance an inquisitive, harmonious and equitable society.

At the Faculty of Law, Humanities and the Arts we aim to develop skills like creative problem-solving, analytical thinking, communication and practical expertise through undergraduate and postgraduate coursework, and higher degree research programs that support international research collaboration.

## OUR RESEARCH

- Australian National Centre for Ocean Resources and Security (ANCORS)
- Centre for Critical Human Rights Research (HRR)
- Centre for Research on Men and Masculinities (CROMM)
- Centre for Texts, Cultures and Creative Industries (CTC)
- Colonial and Settler Studies Network (CASS)
- Contemporary Emotions Research Network (CERN)
- Feminist Research Network (FRN)
- Forum for Indigenous Research Excellence (FIRE)
- Legal Intersections Research Centre (LIRC)
- Material Ecologies Research Network (MECO)
- Narrative Practices in Therapy Initiative (NPT)

## OUR SCHOOLS

- The Arts, English and Media
- Humanities and Social Inquiry
- Law



# Science, Medicine and Health

[smah.uow.edu.au](http://smah.uow.edu.au)



Pro Vice-Chancellor (Health Strategy) & Executive Dean:  
**PROFESSOR ALISON JONES**

The Faculty of Science, Medicine and Health advances knowledge of the natural world, and creates tools to improve human and environmental health.

The Faculty of Science, Medicine and Health offers a range of undergraduate and postgraduate programs focused on expanding human knowledge and improving our quality of life.

## OUR RESEARCH

- Centre for Archaeological Science
- Centre of Excellence for Australian Biodiversity and Heritage
- Centre for Medical and Molecular Bioscience
- Dementia Training Australia
- GeoQuest
- Centre for Sustainable Ecosystem Solutions
- Centre for Atmospheric Chemistry
- Health Impacts Research Cluster

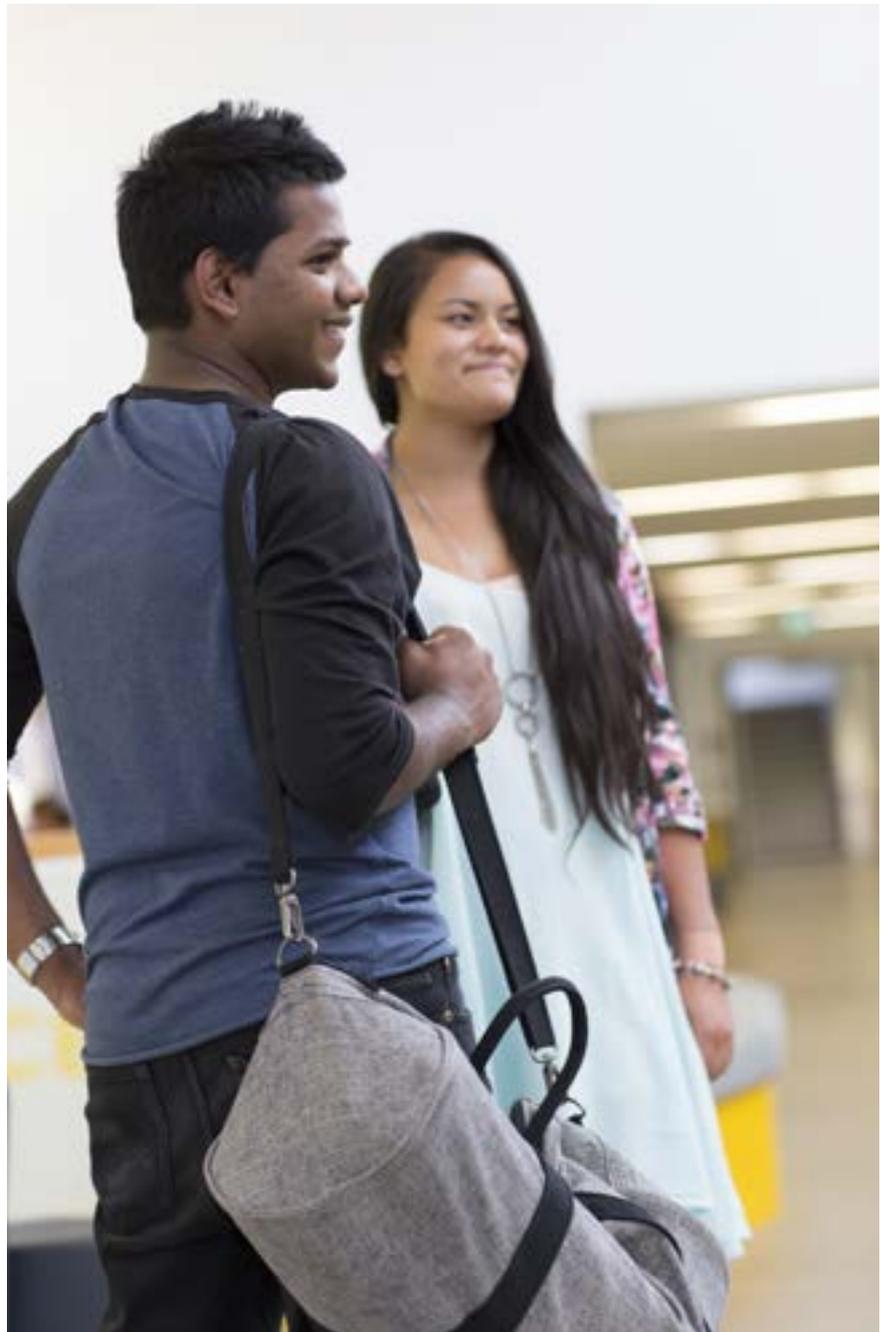
## OUR SCHOOLS

- Biological Sciences
- Chemistry
- Earth and Environmental Sciences
- Medicine
- Nursing



# Social Sciences

socialsciences.uow.edu.au



Executive Dean:  
**PROFESSOR  
GLENN SALKELD**

The Faculty of Social Sciences investigates human behaviour to promote positive relationships and healthy communities.

The Faculty of Social Sciences combines traditional and emerging disciplines that have expertise in human behaviour and the way people interact with their environment.

## OUR RESEARCH

- Australian Centre for Cultural Environmental Research
- Early Start Research
- Power Lab
- Project Air

## OUR SCHOOLS

- Education
- Health and Society
- Geography and Sustainable Communities
- Psychology

## ENTITY

- Early Start

# Teaching locations

UOW has nine campuses throughout NSW to provide exceptional learning experiences that are specially designed to meet the needs of our local students.

This commitment to provide outstanding learning environments was recognised by the 2017 Good Universities Guide, which awarded UOW five-stars in seven categories, including student retention and student support.

Internationally, UOW is a global network of campuses, delivering world-class teaching to students in the United Arab Emirates, Hong Kong, Malaysia and Singapore.

The University also has formal agreements with more than 150 overseas institutions in the areas of research collaboration, student and staff exchange, study abroad, and offshore program delivery.



# Australia



## WOLLONGONG

UOW's main Wollongong campus is set in native Australian bush and is one of the most picturesque university campuses in Australia.

Apart from extensive teaching, research and administration buildings, the main campus includes student residences, a library, conference facilities, food halls, cafes, restaurants and a bar, retail outlets, indoor sports centres and gymnasium, Olympic-standard swimming pool, and sports fields. The campus is used by over 27,000 students and more than 2,000 staff.

The campus is situated at the base of Mt Keira, a few kilometres north-west of Wollongong CBD. Prominent buildings include the SMART Infrastructure Facility, the Illawarra Health and Medical Research Institute, and the Early Start Facility, which includes an Australian-first \$7 million Discovery Space.



## METRO CAMPUSES

UOW has two campuses in Australia's largest city, Sydney, and a new campus in one of the fastest growing regions, the Great South West.

The South Western Sydney campus at Liverpool provides world-class educational opportunities in undergraduate and postgraduate programs, and represents a long-term commitment to the region. UOW commenced operations in Liverpool in February 2017 with a vision to create a contemporary city campus, home to 7,000 students by 2025.

UOW's Sydney Business School is located in Circular Quay, in the heart of Sydney's financial district. Offering award-winning business courses, the Sydney Business School maintains strong links with industry, business and government to ensure that programs reflect both industry and student needs.

UOW Southern Sydney at Loftus, on the city's southern outskirts, is a joint initiative of the University, the Sydney Institute of TAFE Sutherland College, and Sutherland Shire Council. Providing a range of courses, the campus is conveniently located for students living in southern Sydney.



## REGIONAL CAMPUSES

In 1993 UOW established the first of its regional campuses in the Shoalhaven, 80 kilometres south of Wollongong, so that residents of the area could benefit from a university education without the need to travel long distances or live away from home. Since then the network has been extended to include Batemans Bay and Bega on the NSW South Coast and Moss Vale in the Southern Highlands.

Each centre offers a range of undergraduate and postgraduate degrees, with teaching on-site and via high-speed internet links with the main Wollongong campus. The Shoalhaven campus also includes a sub-campus of our School of Medicine.

# International



## UOW IN DUBAI

UOW established the University of Wollongong in Dubai (UOWD) in 1993. From humble beginnings, it is now one of the most prestigious educational institutions in the United Arab Emirates.

UOWD currently employs more than 400 staff and has a student cohort of over 4,000. It offers courses in Business, Commerce, Computer Science, Information Technology, Engineering, International Studies, and Media and Communications at its campus in Dubai's Knowledge Village.

UOWD is arguably Australia's most successful off-shore higher education facility, having built a reputation as one of the leading universities in the Gulf region. All degree programs are accredited by the Ministry of Higher Education and Scientific Research through the Commission for Academic Accreditation, ensuring that qualifications are recognised throughout the UAE.

UOWD's alumni include many UAE government employees, while UOWD has significant research and training partnerships with major UAE organisations and government departments as well as multinational corporations.

[uowdubai.ac.ae](http://uowdubai.ac.ae)

## COMMUNITY COLLEGE OF CITY UNIVERSITY

UOW and Community College of City University (CCCU), Hong Kong, have established a strategic alliance to extend the UOW student experience to CCCU. The University's world-class teaching credentials, active industry engagement and supportive student services enhance the existing curriculum for College students. Studying UOW programs in Computer Science, Business, and Media and Communications, will give students in Hong Kong opportunities for articulation into further study, optimise graduate outcomes through international mobility and strengthen industry collaborations.

The stewardship of CCCU is an opportunity for the University of Wollongong to apply the experience it has gained operating a university in Dubai, and take CCCU to the next phase of its development.

[cityu.edu.hk/cccu/home.html](http://cityu.edu.hk/cccu/home.html)

## OVERSEAS PARTNERSHIPS

UOW is the Australasian member of the University Global Partnership Network (UGPN). Founded by The Universidade de Sao Paulo, North Carolina State University and the University of Surrey, the UGPN sets out to create a foundation for international collaboration, enabling academics and students from some of the world's top universities to work together on issues of global importance.

Established partnerships with international education providers INTI Laureate, PSB Academy, Singapore, and the Singapore Institute of Management extend our reach to students in Asia, with full UOW degrees available to students in their local area.

The University's corporate arm, UOW Enterprises, has developed a strong development profile. It is involved in operations in a number of countries, including China, Hong Kong, Iran, Lebanon, Qatar, Syria, and United Arab Emirates.

Our work with the World Bank, the Asian Development Bank, AusAID and OECD are also critical in delivering relevant education programs.

# Diversification & outreach



## TRANSNATIONAL COURSE DELIVERY

Around 1,000 students are currently undertaking UOW courses in Malaysia under a partnership with leading South-East Asian education provider, INTI International University and Colleges. UOW offers a Masters degree in Business Administration, as well as Bachelor degrees in Commerce, Computing Science and Information Technology at INTI's campuses in Kuala Lumpur, Subang Jaya and on the island of Penang.

A strong strategic alliance has formed between UOW and the Community College of City University (CCCU), Hong Kong. Local students have the option to study UOW degree programs in Business, Computer Science and, Communication and Media.

UOW also has long-standing partnerships with two of Singapore's leading private colleges: the Singapore Institute of Management (SIM) and PSB Academy, to deliver internationally-recognised academic programs in Business, Information Technology and Psychology.



## EDUCATION & TRAINING

UOW has partnerships with government organisations around the world to deliver targeted training courses in fields ranging from business to fisheries management. For example, since 2010 the Sydney Business School has run a postgraduate training course for officials from the Beijing Municipal Government. Each year around 20 Chinese officials come to Wollongong to complete Certificate of Management courses in Public Administration and Business Administration.

UOW's Australian National Centre for Ocean Resources and Security (ANCORS) provides capacity-building courses to officials from maritime nations in the Asia-Pacific region and beyond. The courses include Maritime Security, Ocean Governance and Fisheries Resource Management. For example, ANCORS works closely with the Pacific Islands Forum Fisheries Agency, running courses for government officials from Pacific Island nations on international fisheries negotiations.



## STUDY ABROAD AND EXCHANGE

UOW has Study Abroad and Student Exchange partnerships with more than 272 universities in 44 countries.

Student mobility between Wollongong and overseas institutions broadens both the experiences of the students who travel abroad, and those studying in Australia who are joined in the classroom by international students with different perspectives on the world. Research suggests that students who undertake an overseas study component benefit personally, academically and professionally, returning with greater inter-cultural awareness, adaptability and improved academic performance.

# We stand together

Cooperation is at the very heart of UOW. The diversity of our expertise gives us power over the world's most complex problems. Our partnerships with academics, governments, industries and communities only increase that power, and together we are building great things.



# UOW's Economic Impact

The University of Wollongong is making a major contribution to Wollongong's economic and social transition from a steel city towards a more diverse, highly skilled and globally competitive region.

This is reflected in the continued impact UOW has on the Illawarra and Australia more broadly. The total (direct, indirect and induced) economic contribution has also increased in real terms from \$1.191 billion in 2011 to \$1.21 billion in 2015.

## FOR MORE INFORMATION

The full Economic Impact Report can be downloaded at [impact.uow.edu.au](http://impact.uow.edu.au)

	Jobs	Labour income	Gross output
Annual aggregate <b>DIRECT, INDIRECT AND INDUCED</b>	<b>10,169 FTEs</b>	<b>\$778M</b>	<b>\$2.161B</b>

UOW's ripple effects <b>(MULTIPLIERS)</b>	<b>1.7</b> Every 1,000 FTEs created by UOW related expenditure supports another 1,100 elsewhere in the economy.	<b>1.4</b> Every \$1M in labour income generated by UOW related expenditure generates another \$800,000 of income elsewhere in the economy.	<b>1.6</b> Every \$1M in value added as a result of UOW related expenditure generates another \$1M of income elsewhere in the economy.
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## KNOWLEDGE

UOW has been a catalyst for Wollongong's transformation into a university city focused on the knowledge economy, and it will be the skills and smarts of our people – the human capital – that will be pivotal in keeping Australia economically competitive and socially cohesive. UOW's research and development activities play a major role in shaping regional innovation and in helping to find solutions to some of society's biggest issues.

### KEY FACTS

- **32,208** enrolled students
- **Top 1%** for graduates as rated by global employers<sup>1</sup>
- **\$557.9M** in research & innovation income received (2006-2015)
- **57,692** UOW research outputs available via Open Access (as of August 2016)
- **65** startups supported via iAccelerate (since its inception in 2012)

## EXPENDITURE

UOW is among the top five employers within the Illawarra, employing 2,659 full-time equivalent (FTE) staff in 2015. The University's expenditures include wages and salaries, purchase of goods and services, maintenance of buildings and grounds, and government charges. This expenditure has flow-on impacts throughout the economy, as employees spend their income and UOW's local suppliers buy inputs to their operations to meet UOW's commercial needs. A total of \$342 million in labour income is directly generated by UOW operations.

### KEY FACTS

- **\$613M** of value added
- **25+** commercial retail operators
- **2,659** direct FTE employees
- **\$300M** in capital expenditure to be released between 2016-2020
- **\$597M** of value added (student spending)

## SOCIAL

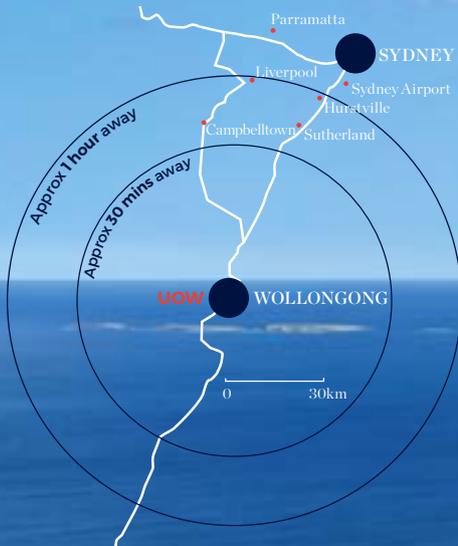
UOW has a longstanding history of supporting its multiple local communities with the intention of creating positive social impact. We provide important cultural, intellectual, artistic, recreational and medical resources, which can add to the vibrancy, creativity and dynamism of our local communities. UOW students and staff also participate and make important contributions to local projects through volunteering and other activities.

### KEY FACTS

- **\$190,183** to charity in the past three years
- **\$490,000** in funding through the Community Engagement Grant Scheme
- **296** UOW students have mentored with AIME
- **\$3.5M** direct contribution to rural and regional infrastructure to support clinical education and training

1. QS Graduate Employability Rankings 2017

# Our home



Our home is the coastal city of Wollongong – 80 kilometres south of Sydney, on Australia’s east coast. We have two campuses in Sydney, as well as four in the South Coast and Southern Highlands regions of the state of New South Wales.

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Colonial settlers moved to Wollongong in the early 19th Century, with early industries including timber getting and dairying (in fact UOW’s main campus was once a dairy farm). Coal mining became increasingly important in the second half of the 1800s, and in the 1920s a steelworks was established at nearby Port Kembla, which was developed as a deepwater harbour.

The port and the coal and steel industries were the catalyst for Wollongong’s development as Australia’s heavy manufacturing industry heartland in the second half of the 20th century. Industry also played a key role in UOW’s development.

The University’s origins date back to 1951, when the then NSW University of Technology (later to become the University of NSW) established a divisional college in Wollongong with the main aim of training engineers, metallurgists and industrial chemists for the region’s industries.

Since our independence, the University has played a pivotal role in Wollongong’s transformation from an industrial city to a university city. While Port Kembla is still home to Australia’s largest steel plant, operated by BlueScope Steel, UOW is taking a progressively leading role in the city and region’s economic development.

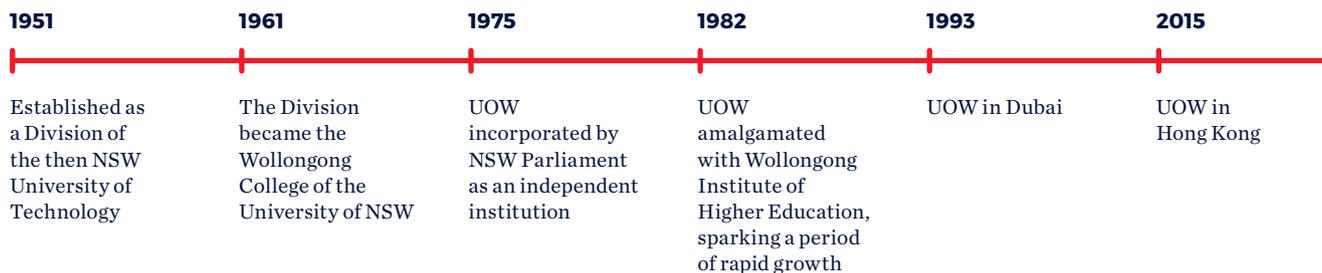
In just 40 years UOW has become a benchmark for Australia’s new generation of universities: dynamic, agile, innovative and prominent in national and international rankings for the quality of our research and teaching.

Now with over 36,000 students studying UOW courses, and more than 2,400 staff, our activities generate around \$2 billion in economic activity annually, making UOW a major economic force. UOW has a clear focus on developing 21st century ‘knowledge economy’ industries based on technology and innovation.

# Our history

UOW has built a reputation as an enterprising institution with a multi-disciplinary approach to research, underpinned by strong industry partnerships and personalised style. Originally established as a provider of technical education required for the region's steel industry, the University now offers a wide range of courses across five faculties.

## HISTORY



## Wollongong numbers

### POPULATION

- Wollongong / 210,350
- Shellharbour / 70,650
- Kiama / 22,000

### CULTURE

- Illawarra Performing Arts Centre
- Wollongong City Gallery
- WIN Sports and Entertainment Centre

### ATTRACTIONS

- 17 patrolled beaches
- Nan Tien Temple (largest Buddhist temple in the Southern Hemisphere)
- Wollongong Botanic Gardens
- Sea Cliff Bridge/Grand Pacific Drive
- Illawarra escarpment bushwalks
- Coastal cycleway/walking track from Wollongong to Thirroul (13km)
- Science Centre and Planetarium (UOW)
- Early Start Discovery Space (UOW)
- Skydive the Beach
- Sri Venkateswara Hindu Temple

### KEY INDUSTRIES

- Education
- Manufacturing
- Health Services
- Shipping and Port Operations
- Tourism
- Mining
- Retailing
- Professional Services
- Technology

## CONTACT

[uow.edu.au](http://uow.edu.au)

[facebook.com/UOW](https://facebook.com/UOW)

[twitter.com/UOW](https://twitter.com/UOW)

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**#ThisIsUOW**



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OF WOLLONGONG  
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