



**MACQUARIE**  
University  
SYDNEY • AUSTRALIA



# **Engaging the world**

MACQUARIE UNIVERSITY  
IN PROFILE

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As a hub of inspired and unconstrained thinking, Macquarie is uniquely positioned to help shape the complex issues that define the future of humanity.

# Innovation through ingenuity

## OUR STORY

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The world is a big place. Its challenges are many. But for each challenge, there are a thousand solutions. Each growing in somebody's mind, somewhere in the world.

Macquarie University was founded with a unique purpose: to bring these minds together and free them from traditional restraints. Invite and nurture perspectives that had previously gone unheard. Perspectives from all corners of the globe.

Fifty years later, the world is benefiting from our discoveries.

We invite you to be part of them.





# Contents

<b>RESEARCH WITH IMPACT</b>	<b>5</b>
<b>WORLD-LEADING FACILITIES</b>	<b>8</b>
<b>ENCOURAGING GLOBAL CITIZENSHIP</b>	<b>10</b>
<b>WHO WE ARE</b>	<b>12</b>
<b>MACQUARIE AT A GLANCE</b>	<b>14</b>
<b>JOIN US</b>	<b>15</b>

PHOTOS: All photos by Chris Stacey unless otherwise noted.

NASA Earth Observatory image by Robert Simmon, using Suomi NPP VIIRS data provided courtesy of Chris Elvidge (NOAA National Geophysical Data Center). Suomi NPP is the result of a partnership between NASA, NOAA and the Department of Defense.

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Our research discoveries benefit the world we live in, with bold new solutions for national and global challenges.

# Paving the way to a brighter future

## RESEARCH WITH IMPACT

**85%** of our research is rated world standard or higher

(Excellence in Research for Australia, 2012)

**120** researchers ranked in the top 1 per cent in the world

(Essential Science Indicators, 2014)

**#5** in Australia for international research collaborations

(Thomson Reuters Web of Science 2008–2012)

More than **100** partner universities in more than 30 countries for cotutelle and joint PhD

**1<sup>st</sup>** Australian research training degree to fully align with Asian, European and North American qualifications

Although relatively young – 50 years since foundation – we have already established an enviable reputation for research excellence.

We are ranked among the highest-performing research universities in Australia. Recognised globally for our pre-eminence in key research disciplines, we pursue excellence in a broad range of research areas, including those that are cross-disciplinary in nature.

In applying our research, our discoveries translate into real improvements for local, national and global communities. Discoveries such as wi-fi, which our researchers co-developed with CSIRO, and discoveries yet to come such as cures for motor neurone disease and Parkinson's disease.

We are an open, engaged and audacious research community, and we seek to collaborate with industries, governments, communities, professions and academic peers who share our desire for discovery.

Our research goals are bold and ambitious. Working with partners who are just as bold and ambitious, we can produce world-leading research with world-changing impact for many decades to come.

## FUTURE-SHAPING RESEARCH PRIORITIES

The world's challenges are complex and interrelated.

The solutions require thinking that is not restrained by traditional academic boundaries.

With a collegial and cross-disciplinary approach at the heart of our ethos, Macquarie is uniquely positioned to find these solutions. Our five future-shaping research priorities provide a focal point for cross-disciplinary research that draws on the deep disciplinary strengths Macquarie is known for, and which are aligned with the national research agenda and global challenges of significance.

### SECURE PLANET

Sustaining our interdependent world and exploring our place in the universe

- Living in a changing environment
- Exploring planet Earth and beyond



### PROSPEROUS ECONOMIES

Strengthening economic productivity to promote prosperity in our diverse world

- Role, operation and risks in global financial and economic systems
- Organisational sustainability, productivity and competitiveness

**HEALTHY PEOPLE**

Pioneering health, integrated healthcare and lifelong learning for wellness in our ageing world

- Pedagogies for health and lifelong learning
- Health and resilience
- Translational medical research
- Sensory and cognitive processing
- Hearing, language and literacy



PHOTO: ISAAC LANE / KIVA / CORBIS

**RESILIENT SOCIETIES**

Understanding cultures in our changing world and building ethical, just and inclusive communities

- Societal transformation
- Modes of communication
- Ethics, governance and justice

**INNOVATIVE TECHNOLOGIES**

Advancing our interconnected world with frontier technologies, systems, designs and creative practice

- Science and engineering technologies for the 21st century
- Big Data: Acquisition, analysis, application and assurance



We are home to some of Australia's most exceptional facilities – hubs of innovation that unite our students, researchers, academics and partners to achieve extraordinary things.

# Progressive thinking requires an exceptional home

## WORLD-LEADING FACILITIES

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### MACQUARIE UNIVERSITY HOSPITAL

Australia's first and only private, not-for-profit hospital on a university campus, Macquarie University Hospital is setting new benchmarks in healthcare. The Hospital and the Faculty of Medicine and Health Sciences work together to provide students with a practical learning experience, and to deliver the best in research, resources and innovations to improve the lives of our patients and the broader community.

### COCHLEAR

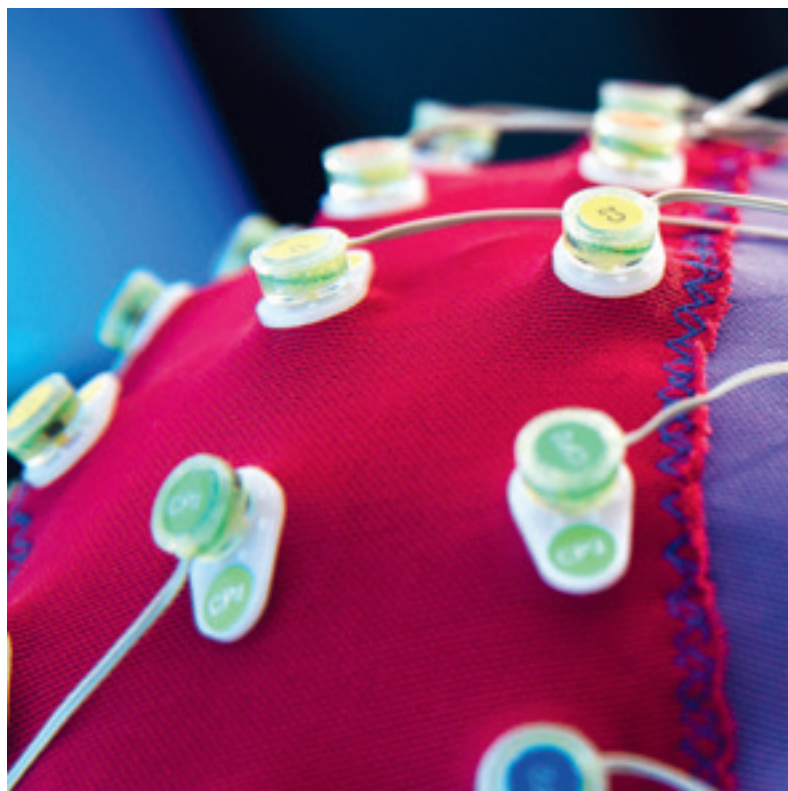
Macquarie is home to the world headquarters and principal manufacturing facilities of Cochlear. As the leading global expert in implantable hearing solutions, Cochlear is dedicated to bringing the gift of sound to people all over the world. Its location on our campus facilitates outstanding research–industry partnerships that are continually driving innovation for the benefit of people across the globe.

### AUSTRALIAN HEARING HUB

The Australian Hearing Hub is a revolutionary facility. Inspired by the interdisciplinary research environment at Macquarie, the state-of-the-art facility brings together some of the country's best researchers and service providers to advance research, education and innovation into hearing and language disorders.

### KIT-MACQUARIE BRAIN RESEARCH LABORATORY

The laboratory is home to the world's first child MEG brain imaging system, and the world's first MEG system for children and adults with cochlear implants. Young children and cochlear implant patients pose specific and different challenges for functional brain imaging. Having access to custom-engineered MEG systems opens new avenues for research in the development of human cognitive brain function and in the study of auditory cortical function after implantation of a cochlear prosthesis.



Macquarie is a community of world citizens engaged with issues of global importance.

# Immersed in world issues

## ENCOURAGING GLOBAL CITIZENSHIP

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Macquarie encourages our students, researchers, academics and staff to actively engage in, and seek solutions to, the complex issues that define the future of humanity.

Students – the leaders of the future – are supported to spread their wings internationally through a number of unique programs.

Our extracurricular Global Leadership Program (GLP) engages students in global issues while developing their leadership and cross-cultural skills, and connecting them with inspiring thought leaders.

The PACE (Professional and Community Engagement) program gives all our undergraduate students the chance to enrich their classroom learning through participation in work and community environments both locally and internationally.

Our travel grant scheme – one of the most generous of any university in Australia – supports our students to experience global issues first-hand. Through interaction with societies across the world, they return emboldened with new perspectives and intercultural skills to apply to their study and their future careers.

And through studying subjects such as Big History – a unique way of understanding our universe, our world and our humanity – our students learn key knowledge from history that may unlock some of the critical challenges facing local and global communities today.





*Students – the leaders of the future – are supported  
to spread their wings internationally.*

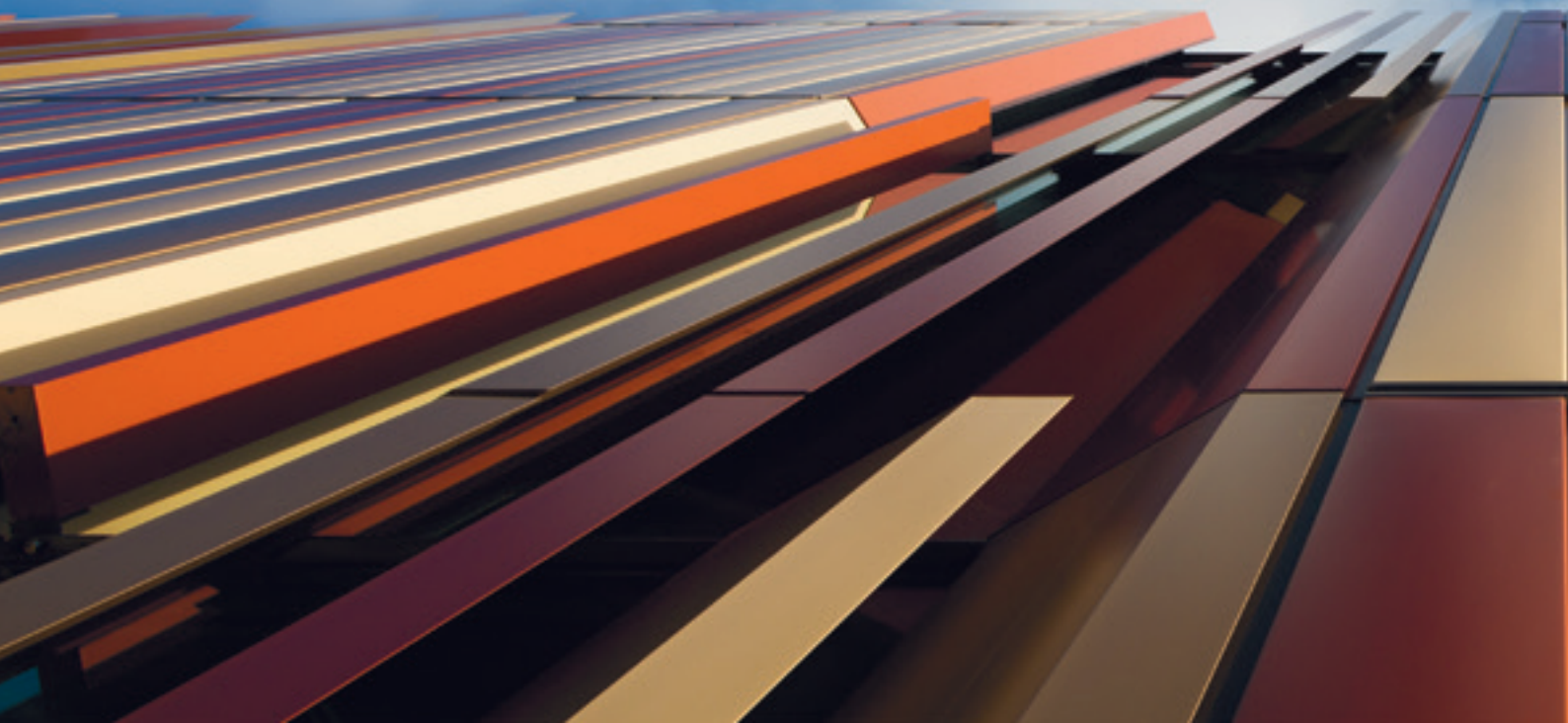
Creative thinking requires exceptional partnerships. Built on a history of collegiality, Macquarie openly supports and encourages collaboration among the most diverse people and perspectives.

# Diverse alliances generate bold intellect

## WHO WE ARE

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Led by the Vice-Chancellor, Professor S Bruce Dowton, Macquarie comprises five faculties and several internationally recognised entities. Our undergraduate, postgraduate and higher degree research students are encouraged to follow their passions across a kaleidoscope of interdisciplinary areas of study, each with a focus on global issues.



**FACULTIES**

Faculty of Arts

Faculty of Business  
and Economics

Faculty of Human Sciences

Faculty of Medicine and  
Health Sciences

Faculty of Science  
and Engineering

**AREAS OF STUDY**

Business

Education

Engineering and IT

Environment

Health and medical sciences

Law and criminology

Media, creative arts  
and communication

Science

Society, history and languages

**MAJOR ENTITIES**

Applied Finance Centre

Macquarie Graduate  
School of Management

Macquarie University  
English Language Centre

Macquarie University Hospital

Macquarie University  
International College

Since 1964, Macquarie has been doing things differently. This is what we look like today.

# Pursuing excellence

## MACQUARIE AT A GLANCE

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5 QS STARS  
in teaching, employability,  
research, internationalisation,  
facilities, innovation, access and  
specialist subjects  
(QS World University Rankings, 2015)



AMONG TOP 2 PER CENT  
of universities in the world  
(Academic Ranking  
of World Universities, 2014)



9 SUBJECTS  
ranked in the top 100 globally  
(QS World University Rankings  
by Subject, 2015)



MGSM'S MBA  
ranked number one in Australia,  
68 in the world  
(Financial Times, 2015)



\$6.7 MILLION  
awarded in international and  
domestic scholarships each year



MORE THAN 300  
companies on campus or in the  
adjacent high-tech precinct,  
providing access to internship  
and job opportunities



9400  
students in PACE  
(Professional and Community  
Engagement) since its inception



MORE THAN 156,000  
alumni in more than  
140 countries



MORE THAN 150  
partner universities for student  
exchange in more than  
40 countries



\$1 BILLION  
invested in infrastructure and  
facilities in recent years



MORE THAN 39,000  
students from more than  
100 countries



THE ONLY  
AUSTRALIAN UNIVERSITY  
with a private hospital  
on campus

# Driving discovery through collaboration

## JOIN US

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We believe that being a great leader is all about being a team player.

Our many and varied partners each enjoy a distinct place in our team, and bring with them unique perspectives that allow us to learn, grow and create in ways that would not be possible without collaboration.

If you share our desire for innovation and discovery, we would love to have you join us.

