

RESEARCH



IMPACT  
2017



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

Create change



Professor Robyn Ward AM, Deputy Vice-Chancellor (Research) and Professor Peter Høj, Vice-Chancellor and President

## MESSAGE FROM THE Vice-Chancellor and President and Deputy Vice-Chancellor (Research)

Building on a strong record of success, UQ researchers aim for international standards of excellence across the spectrum to help make the world a better place.

At UQ, 'Create change' is not just a catchphrase, it's a reality. And it's clear that exceptional partners and allies are instrumental in taking the benefits of UQ innovation to people all over the world.

So, to all our collaborators and friends in industry, government, philanthropy and the not-for-profit sector: thank you.

### With your support, UQ researchers have:



created a **phone app** that can diagnose respiratory illness, helping millions of people worldwide



empowered millions of families to create the kind of environments where children can **flourish**



neutralised the microDNA in plant viruses to enable **improved yields** for agricultural crops



developed image correction systems used in most of the world's clinical **MRI machines**

### You help make UQ:



a top **50** global university



**number 1** Australian institution in *Nature* Index (2016)



a leading research institution with **100%** of research at or above world standard (55% well above)



**number 1** recipient of ARC Fellowships and Awards nationally across all scheme years (332 awards worth \$227 million)

### With your support UQ has:



grown industry funding for research **by 35%** since 2012



**seen 164+** UQ staff and emeritus professors become Fellows of Australia's learned academies



awarded **13,000+** PhDs since 1952 with 3353 in the last five years (2012-2016)



enrolled **4573** higher degree by research students in 2016

... and much more.

UQ  
**RESEARCH EXCELLENCE**  
Awards

Students and young researchers in the talent pipeline take guidance and inspiration from seasoned innovators in the UQ community and – along with their mentors – are recognised for their efforts with UQ Foundation Research Excellence Awards, Partners in Research Excellence Awards, and the Awards for Excellence in Higher Degree by Research Supervision. See [uq.edu.au/researchweek](http://uq.edu.au/researchweek) and learn more about their efforts to **Create change**.

# RESEARCH AT UQ

The University of Queensland is one of Australia's premier research institutions, receiving \$368 million in research grants and contracts in 2016.

## A world-class research institution

- UQ ranks in the world's top 50 universities as measured by the:
  - Centre for Science and Technology Studies (CWTS) Leiden Ranking (38)
  - Performance Ranking of Scientific Papers for World Universities (43)
  - QS World University Rankings (47).
- The University also ranks:
  - 52 in the *U.S. News* Best Global Universities Rankings
  - 55 in the Academic Ranking of World Universities
  - 60 in the *Times Higher Education* World University Rankings.
- In 2016 UQ topped the nation in the prestigious *Nature* Index, and was awarded more Australian Research Council grants than any other Australian university.

## Research quality

The third Excellence in Research for Australia (ERA) assessment, conducted in 2015, rated 100 per cent of UQ's research – evaluated across 22 broad fields of research and 97 specialised fields of research – as being at world standard or above.

- 95 per cent of UQ's broad fields of research were rated above or well above world standard, with 55 per cent receiving the highest rating of five.
- UQ topped the nation in five fields: environmental engineering, environmental biotechnology, industrial biotechnology, tourism and social work.
- UQ was also rated equal first in 58 broad and specialised fields, including engineering, medical and health sciences, statistics, business and management, and cultural studies.

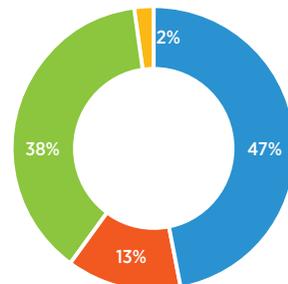
## UQ fellowship honours 2016

Australian Research Council (ARC) Laureate Fellows	15
NHMRC John Cade Fellowship	1
Fellows of the Academy of Social Sciences in Australia	50
Fellows of the Australian Academy of Science	40
Fellows of the Australian Academy of Technological Sciences and Engineering	31
Fellows of the Australian Academy of the Humanities	34
Fellows of the Australian Academy of Health and Medical Sciences	21

## Research funding 2016

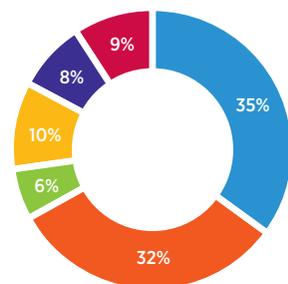
\$368 million in total sponsored grants and contracts including:

	\$million
Australian competitive grants	174.7
Other public sector research funding	48.5
Industry and other funding	139.0
Cooperative Research Centres (two new centres)	5.7



## Sources of UQ research support 2016

	\$million
Commonwealth Government research funding	188.0
Commonwealth Government research block grants	176.8
State/Local Government	30.8
Australian industry and other contract/grants	55.1
All Australian donations, bequests, trusts, foundations	42.4
All international funding	51.6



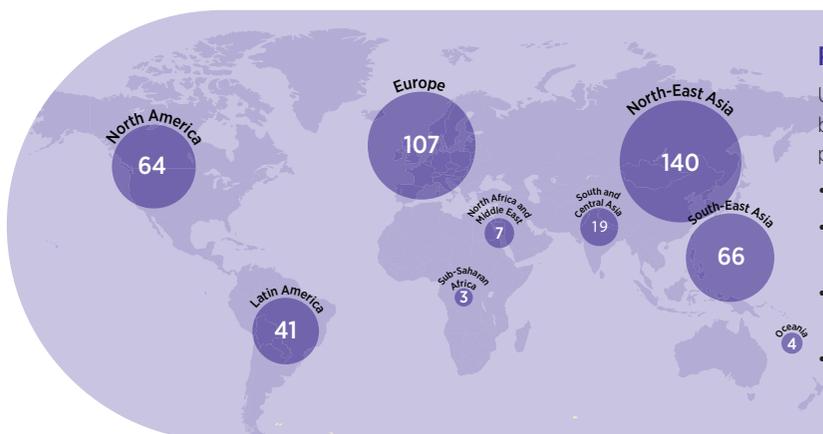
## UQ revenue 2016

Total Operating Revenue	\$1.75 billion
Total Research Support	\$544.7 million

## Education impact and training 2016

Higher Degree by Research students enrolled	4573		
PhDs awarded	Domestic	369	731
	International	362	
MPhils awarded	Domestic	68	91
	International	23	

Please note all funding represented in A\$.  
Data/figures correct as at 30 June 2017.



## Research engagement

UQ has a long history of successful research partnerships with local businesses, multinational corporations, governments, NGOs, non-profits, and other research institutions:

- 400+ international partner institutions
- flagship research partnerships with multinational corporations such as Boeing, Dow Chemical Company, Baosteel, Rio Tinto and Pfizer
- 8804 research publications published in 2016 that included 4390 with international co-authors from 157 countries
- co-authors from more than 1600 academic institutions, 54 major corporations and 231 health organisations.



# RESEARCH IMPACT

From science and sustainability to health and humanities, UQ research has impact. Learn more, be inspired, and find out how we create change – right across the world, every day.

## DISCOVER

Asking the right questions, finding information and finding theoretical solutions

## ENGAGE

Exchanging knowledge, understanding and resources in a reciprocal context

## IMPACT

The contribution that research makes to the world and the lives of the people living in it

Learn more about the impact of UQ research across the world:

[uq.edu.au/research/impact](https://uq.edu.au/research/impact)

# DISCOVER UQ RESEARCH

Find out about our exciting research in five general areas:

[uq.edu.au/research/impact](http://uq.edu.au/research/impact)



## HEALTHY AGEING

“Early de-tech-tion”

UQ is renowned for its innovations in patient care – from vaccines and virus killers to pain relief and pain-free disease diagnosis. We even help develop technology to make life easier for healthcare workers all around the world.

Having enough food for the billions of people living on Earth is a problem we take seriously at UQ. For example, we are helping farmers produce better yields and then ensuring the food they grow lasts longer once it hits the market.



“Growing ideas for a better future”

## FEEDING THE WORLD

Good health and plenty of food are no use if our world disappears. UQ researchers are on a mission to discover the real impact of climate change and human behaviour, and how we can fix any problems.



## RESILIENT ENVIRONMENT

“We as the international  
community have a lot to learn”

UQ expertise is transforming the world of science – from skin cancer and scramjets to sewer systems and outer space. And remote Australia will soon see a new industry: stripping spinifex to produce super-latex.



“Turning science  
into employment”

## TECHNOLOGY FOR TOMORROW

To live together harmoniously, we need some rules, and we should learn from the past. UQ's humanities and social science researchers show us how to make life better – in housing, heritage, helping out, and having a say.



## TRANSFORMING SOCIETIES

“A place to call home”

# CONNECT WITH UQ RESEARCH

## Visit us online

Find out more about the research we do at UQ and how you can get involved – whether as student, research partner or donor

[uq.edu.au/research](http://uq.edu.au/research)



Inspired by nature, UQ researchers are mimicking the structure of pollen to create more effective antimicrobial medicines, helping to tackle one of the biggest threats facing humanity – antibiotic resistance.



### Study with us

With one of Australia's largest PhD cohorts, you'll be in good company when you study at UQ.

[graduate-school.uq.edu.au](http://graduate-school.uq.edu.au)



### Work with us

100 per cent of UQ research is at world standard or above – be part of this amazing outcome.

[researchers.uq.edu.au](http://researchers.uq.edu.au)



### Sponsor us

Help sustain research that's improving human health and the discovery of solutions for a better world.

[uq.edu.au/giving](http://uq.edu.au/giving)