

▶ Research partnerships

Delivering applied and powerful solutions for businesses, government and communities through collaboration, innovation and expertise.



Partner with us

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- Why Deakin is a trusted partner for 500+ leading businesses and government agencies:

TOP 1%

OF UNIVERSITIES
WORLDWIDE¹

500+

PARTNERS ACROSS
65+ COUNTRIES

543ha

GEELONG FUTURE ECONOMY
PRECINCT SUPPORTING 2,000
JOBS AND 20 BUSINESSES

#1

UNIVERSITY IN AUSTRALIA
FOR EQUITY HELD IN
START-UP AND SPIN-OUT
COMPANIES²

100%

OF DEAKIN RESEARCH IS
RATED AT OR ABOVE WORLD
STANDARD³

TOP 20

IN AUSTRALIA FOR
ACADEMIC REPUTATION⁴
AND JOURNAL CITATIONS⁵

2000+

RESEARCH EXPERTS

\$130.5m

RESEARCH INCOME IN 2022

TOP 20

RATED INTERNATIONAL
RESEARCH NETWORK IN
AUSTRALIA⁶

Sources:

¹ ARWU (ShanghaiRanking Academic Ranking of World Universities) 2023, THE (Times Higher Education) World University Rankings 2023, QS (Quacquarelli Symonds) World University Rankings 2024

² Survey of Commercialisation Outcomes from Public Research (SCOPR) 2022, Knowledge Commercialisation Australasia

³ Excellence in Research Australia (ERA) 2018, Australian Research Council

⁴ QS World University Rankings 2024 (based on the Elsevier Scopus Database)

⁵ THE World University Rankings 2023

⁶ QS World University Rankings 2023

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We respectfully acknowledge the Wurundjeri and Wadawurrung people of the Kulin Nation, and the Peek Whurrong people of the Maar Nation, as the Traditional Custodians of the lands on which Deakin University's Burwood, Melbourne City, Geelong and Warrnambool campuses stand. We pay our respects to their Elders past and present, and to their Ancestors, and acknowledge their continuing custodianship, care and connection to Country over many thousands of years. We recognise that sovereignty over Country was never ceded.

► Our mission

We collaborate with business, community organisations and government to deliver powerful and applied solutions.

Connecting world-renowned researchers with unique technical expertise, we deliver practical, applied solutions solving complex social, economic and environmental challenges in Australia and abroad.

Our multidisciplinary expertise – across four faculties and 14 institutes and research and innovation centres – has seen the University become a trusted partner for more than 500 organisations in 65 countries, earning Deakin a place in the top 1% of universities worldwide¹.

'One of Australia's leading universities, Deakin has strong global connections and delivers world-class research across our faculties, institutes and research centres.'

'As a national leader in research commercialisation and collaboration, when you work with Deakin you gain a partner that is open and flexible to your needs, understands your goals, and shares your ambition to develop practical solutions for positive, lasting impact.'

Vice-Chancellor
Professor Iain Martin

¹ ARWU (ShanghaiRanking Academic Ranking of World Universities) 2023, THE (Times Higher Education) World University Rankings 2023, QS (Quacquarelli Symonds) World University Rankings 2024





Our research impact

Your partnership with Deakin opens the door to our world-class academics, state-of-the-art facilities, and groundbreaking research that's proven to drive success.

Whether you want to commercialise products, develop new capabilities, make systems more efficient, expand into new markets, shape policy agendas or create jobs of the future, our specialists will work with you to achieve your vision.

Delivering practical, high impact outcomes is our core strategic focus, which is why:

- ✓ We're home to **Australia's leading advanced manufacturing** incubation and acceleration hub
- ✓ Our cutting-edge facilities include the **world's most advanced carbon fibre and composite** research facility
- ✓ We're spearheading the nation's **largest recycling and clean energy advanced manufacturing ecosystem**, the \$380 million Recycling and Clean Energy Commercialisation Hub (REACH)
- ✓ We're home to a **world-leading next-generation** haptically enabled Universal Motion Simulator
- ✓ Deakin is **Australia's first university** to accommodate a highly secure defence facility
- ✓ We accommodate **Victoria's most advanced marine laboratory**
- ✓ We have the **largest fibre research group** in the Southern Hemisphere
- ✓ **Internationally renowned Deakin academics** are members of the Australian Research Council (ARC) College of Experts
- ✓ We're **ranked among the best in the world** for disciplines including education, nursing, sport science, humanities, social sciences, business, architecture and built environment¹
- ✓ We're home to the **#1 sports science school** in the world²
- ✓ We're recognised as one of the **world's top five tertiary institutions** and the leading university in Australia for education research³
- ✓ We rank **#20 worldwide for Nursing**⁴
- ✓ The Australia-India Economic Strategy 2035 cited **Deakin as an 'ideal collaborator'** with India
- ✓ We are home to **Australia's largest applied AI Institute**

¹ QS World University Rankings by Subject 2023

² Shanghai Ranking Global Ranking of Sport Science Schools and Departments 2022

³ 2022-2023 Best Global Universities

⁴ Shanghai Ranking Global Ranking of Subjects (GRAS) 2022



▲ The robot dubbed 'HERCULES' - Haptically-Enabled Robotically Controlled Ultrasound Examination System – was developed by researchers at Deakin's Institute for Intelligent Systems Research and Innovation (IISRI) and is being trialled at **Austin Health** in Melbourne.

Recent outcomes we've delivered for our partners

- ▶ An augmented reality firefighter training system **FLAIM Trainer™**, commercialised from idea to product
- ▶ A 71% decrease in clinical waste and 48% drop in waste management costs for **Western Health**
- ▶ A 21% reduction in errors of trauma bay omissions at **The Alfred**
- ▶ A long-standing collaboration with **Quickstep** producing new carbon fibre applications for the auto, aviation and defence industries
- ▶ A 62-minute reduction in sitting time each day in Victorian primary schools through Deakin's **NHMRC**-backed Transform-Us! program
- ▶ A partnership with **Country Press Australia** that informed a senate inquiry on media diversity and a parliamentary inquiry into local newspapers
- ▶ An award-winning, world-first carbon fibre composite production process, commercialised by **Multimatic**, to produce parts for the Mercedes AMG S-Class
- ▶ Australia's first **high-G centrifuge platform** for air combat training
- ▶ A world-first research tool to monitor children's exposure to junk food, alcohol and tobacco advertising
- ▶ A new software solution and ecosystem that enables animation and visual effects (VFX) to be produced in half the time and for half the cost of existing methods
- ▶ Almost 300 community led actions resulting in a BMI decrease among local children in **Portland, Victoria**
- ▶ In four years alone, more than 100 research projects have been jointly undertaken with **Barwon Health**, including co-authorship of almost 800 publications

Our research expertise

Our world-leading faculties, institutes and research centres are home to renowned innovators and specialists.

In partnering with Deakin, you'll collaborate with the best and brightest minds in your field.

We specialise in:

- ✓ Architecture and urban and regional planning
- ✓ Advanced manufacturing
- ✓ Artificial intelligence and machine learning
- ✓ Clean and renewable energy
- ✓ Clinical sciences, medicine, nursing and midwifery
- ✓ Cyber security, resilience and criminology
- ✓ Defence systems and security
- ✓ Economics
- ✓ Education
- ✓ Electrical and mechanical engineering
- ✓ Environmental science, ecology and conservation
- ✓ History, cultural studies, sociology and anthropology
- ✓ Marine, fisheries and aquaculture
- ✓ Mental health, psychology and cognitive sciences
- ✓ Nutrition and dietetics
- ✓ Pattern recognition and data analysis
- ✓ Political science and international relations
- ✓ Public health
- ✓ Recycled materials and sustainable bioproducts
- ✓ Smart information systems and robotics
- ✓ Sports science

Access our world-class research institutes and centres

▶ Applied AI Institute

Our globally recognised institute applies AI to solve industry challenges no one else can. We develop effective uses of AI across diverse sectors including health, security, manufacturing and aged care.

www.deakin.edu.au/a2i2

▶ Institute for Intelligent Systems Research and Innovation

Home to Australia's largest research team in systems modelling and simulation, we provide practical solutions and commercial-ready products for aerospace, rail, automotive, defence, security and health sectors.

www.deakin.edu.au/iisri

▶ Institute for Frontier Materials

Our experts redesign materials for a circular economy, tackling complex problems in energy, health, the environment and manufacturing.

www.deakin.edu.au/ifm



Researchers at Deakin's Blue Carbon Lab partner with **BHP** to drive groundbreaking research on nature-based solutions to climate change.

▶ **Alfred Deakin Institute for Citizenship and Globalisation**

Australia's leading social sciences and humanities research institute, we generate knowledge about citizenship, diversity, inclusion and globalisation to inform scholarship, debate and policy.

www.deakin.edu.au/adi

▶ **Institute for Mental and Physical Health and Clinical Translation**

We develop new and effective responses to mental and physical health, using cutting-edge approaches to translate medical research from the laboratory to real-world solutions.

www.deakin.edu.au/impact

▶ **Institute for Physical Activity and Nutrition**

A world-leading research institute committed to improving health and quality of life, we understand and influence physical activity and nutrition to improve health across the lifespan.

www.deakin.edu.au/ipan

▶ **Deakin's Institute for Intelligent Systems Research and Innovation (IISRI)** partnered with **Cingulan Space** to develop a high-end tracking antenna capability that provides a sovereign alternative to the usual international suppliers inside Australian space sectors.

▶ **Institute for Health Transformation**

We address critical challenges facing our health system, including determinants of health, obesity prevention, health economics and patient safety.

www.deakin.edu.au/tht

▶ **National Indigenous Knowledges Education Research Innovation Institute (NIKERI)**

The NIKERI Institute has a proud history of teaching, learning, research and innovation in Indigenous higher education. NIKERI Institute research showcases the value and Australian First Nations Knowledge Systems, cultures, traditions, histories, perspectives and insights..

www.deakin.edu.au/nikeri



Our collaborative way of working

Do you want to partner with global experts in your industry who understand your vision?

We know that working with the best team is critical to success. Whatever the size of your organisation, we'll ensure you're working with a custom-built, dedicated team of world-renowned researchers committed to executing your vision.

We undertake our research across multiple faculties, institutes and centres. This means that when you partner with us, you'll gain access to our collective expertise, technologies and resources to drive the outcomes you need.

We're immensely proud of the work we do with all our partners. Across our 50-year history, we've forged a strong reputation for being a highly engaged and collaborative team. This means you can be confident we share your passion and ambition to deliver true impact.



'The relationship with A2I2 has truly been the fulfilment of some of our dreams about how we can use technology to make a profound and lasting difference to the lives of people living with dementia.'

Maree McCabe AM
CEO, Dementia Australia

Hear from our partners

“

'Having access to leading academic experts in artificial intelligence and other cutting edge technology fields has the potential to unlock innovative services and transform the experience of ageing of our customers, a goal that an aged care provider alone could not achieve.'

Nina Bowes
Director of Strategy and Innovation,
Uniting AgeWell

“

'For industry to be successful, it is important to get a competitive advantage, to be cutting-edge. Working with an organisation like Deakin... they bring the latest theories and science to your problem.'

Joe Winter
Chief Technology Officer,
Cingulan Space

“

'Geography made no difference because we really wanted to work together and it's been very productive. It's one of the best collaborations in science I've worked in because the people are right and they want it to work.'

Professor Marcus Atlas
Surgeon Scientist and Director, Ear
Science Institute Australia

Our networks and partnerships

Our globally connected research community means you'll have access to Deakin's state-of-the-art facilities, experts and collaborators in your field.



With more than

500 partnerships in
65 countries,

working with Deakin means you join forces with the world's best:

- ✓ industry practitioners
- ✓ research institutions
- ✓ NGOs
- ✓ government agencies
- ✓ community groups
- ✓ universities.

Our trusted partnerships are testament to our unique research expertise, collaborative way of working and proven outcomes.

SOME OF DEAKIN'S LONG-STANDING PARTNERS

- | | |
|----------------------------------------------------|-----------------------------------|
| Alstom | General Motors Holdings LLC |
| Australian Information Security Association (AISA) | Hanwha |
| Australian Defence Force | HYDAC |
| Australian Electoral Commission | Leidos |
| Australian Multicultural Commission | Lockheed Martin |
| Barwon Health | Quickstep |
| Bendigo Bank | Public Safety Canada |
| Black Dog Institute | Telstra |
| Boeing | Transport Accident Commission |
| Cancer Council Victoria | Toyota Motor Corporation Japan |
| Cerebral Palsy Alliance | UNESCO |
| CSIRO | Uniting |
| Department of Health and Aged Care | United Nations |
| Dementia Australia | VicHealth |
| Ford | Victorian Department of Education |

How could a Deakin graduate researcher advance your business?

Does your business have a long lasting yet challenging issue to resolve? Do you require a methodological and scientific approach to understanding and resolving it?

Deakin's PhD industry placements program gives organisations like yours access to emerging research experts to solve problems and harness new opportunities.

Deakin research partners can benefit from the unique skills of more than 2000 progressive and forward-thinking graduate researchers.

A PhD project could offer a low cost, low risk – but potentially high reward – approach to take your business to the next level, while supporting the workforce of tomorrow.

Industry placements are available to all non-higher education institutions such as small-to-medium enterprises, government and not-for-profits, and can be completed by both domestic and international graduate researchers.

'Our engagement with Deakin University researchers has seen seven PhD researchers undertake internships with various Aurecon business units. Importantly, these candidates provided an effective pathway for industry to explore new domains and emerging opportunities for research application in a rapid yet scientifically grounded manner.'

'The success of these projects, business impact and readiness of the candidates for industry has seen a number return to Aurecon following graduation and build successful industry careers.'



Slaven Marusic
Data Science Lead, Aurecon



◀ A partnership with **Barwon Health** is leveraging Deakin's research excellence and innovative education with Barwon Health's clinical and healthcare expertise to translate mental health, drug and alcohol research into clinical practice faster.



▲ Deakin's Applied AI Institute (A2I2) worked with Australian med-tech pioneers, **Control Bionics**, in developing the world's first autonomous driving wheelchair module for the home.



Partner with us to achieve your vision

Our partnerships network is rapidly expanding. Discover how Deakin can help drive successful outcomes for your business.

Join us

✉ research@deakin.edu.au ✕ [/deakinresearch](https://twitter.com/deakinresearch)

📘 [/deakinresearch](https://facebook.com/deakinresearch) 🌐 [/deakin-research](https://linkedin.com/company/deakin-research)

deakin.edu.au/researchpartnerships

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