

## RECRUITMENT

# Postdoctoral Research Fellow



## CONTACT

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Applications close on 28 February 2019

# About Deakin

**TOP  
2%**  
of the world's  
universities<sup>1</sup>

**No.1**  
in Victoria for  
student satisfaction  
2010–2017<sup>2</sup>

**No.214**  
ARWU global ranking  
of world universities<sup>3</sup>  
research capabilities

Deakin's growing reputation is reflected in its rapid rise in international rankings; Deakin entered the prestigious Academic Ranking of World Universities for the first time in 2014 and now ranks an estimated 214 (ARWU 2017). Deakin is ranked 29 in the QS ranking of the world's top universities under 50 years. Ninety percent of Deakin's research was rated at or above world standards in the Australian Government's Excellence in Research for Australia (ERA).

Established in 1974, Deakin University was named after the leader of the Australian Federation movement and the nation's second Prime Minister, Alfred Deakin.

Deakin University has five campuses, one in Melbourne's eastern suburbs, two in the port city of Geelong and one in Warrnambool on the south-west coast of Victoria. Deakin's fastest growing campus is in the Cloud where over 14 000 students study predominantly online. All students, regardless of their campus or mode of study, benefit from Deakin's award-winning digital environment.

Deakin is proud of its inclusive and student-focussed culture and its reputation for using innovative digital solutions to provide an engaging and personalised learning experience. Deakin is committed to lifelong learning, providing students with choices about how, when and where learning occurs.

Deakin's four faculties offer courses across the arts, design, science, sport, nutrition, architecture, business, law, medicine, optometry, engineering, nursing, allied health, psychology and teaching.

With 58 000 students Deakin is one of Australia's largest universities and is ranked in the top 2 per cent of the world's universities in the major international rankings (ranked 29 in the QS ranking of the world's universities under 50 year).

As a Victorian university with a global impact, Deakin is translating its research into the commercial outcomes that will drive the innovation Australia's economy needs now and into the future. Research at Deakin focusses on innovation and robust partnerships with industry and business and it is building a formidable international reputation in areas of emerging national social, economic and political priority in its core areas of health, carbon fibre, energy and cyber security. Deakin has integrated its research growth plan into its overall strategy of service, developing its base in advanced manufacturing, which is vital for the Geelong community and Information technology, which is strong in the surrounds of its Melbourne campus.

## Our strategy

Deakin's vision and mission is articulated in its strategic plan *LIVE the future: 2017-2020*. Through *LIVE the future*, Deakin aspires to be Australia's premier university in driving the digital frontier, enabling globally connected education for the jobs of the future, and research that makes a difference to the communities Deakin serves.

Informed by its Australian and Victorian context and engaged locally in the communities it serves, Deakin advances:

- Learning – offering students a brilliant education where they are and where they want to go
- Ideas – making a difference through world-class innovation and research
- Value – strengthening our communities, enabling our partners and enhancing our enterprise
- Experience – delighting our students, our alumni, our staff and our friends.

These four interconnecting elements form the acronym *LIVE*, and together they articulate the Deakin promise to its students, staff, alumni, partners and friends.



# Faculty of Health

Deakin Health is recognised in Australia and internationally for its teaching, training, research and service. We are one of the fastest growing health faculties in Australia. Our teaching, research and service contribute to improved health and wellbeing, and to strengthening the health and human services sectors in Australia and the Asia-Pacific. We assist governments, communities and organisations to develop a wide variety of health and social programs and policies.

The Faculty of Health teach a large variety of health disciplines and sub-disciplines at campuses and health services in Geelong, Burwood, Ballarat, Warrnambool and other locations in Melbourne, Western Victoria and further afield. Our courses are delivered both on campus and online via our Cloud Campus using a state-of-the-art blend of face-to-face and online teaching methods.

The Faculty is made up of five schools:

- School of Exercise and Nutrition Sciences
- School of Health and Social Development
- School of Medicine
- School of Nursing and Midwifery
- School of Psychology

Through our Schools and research groups we work collaboratively with a wide range of external organisations. These include federal and state governments, schools, public and private hospitals, health centres, non-government organisations such as Diabetes Australia, community groups, international bodies such as the World Health Organization, commercial companies, and other universities and research institutes at home and overseas. A number of highly productive partnerships across the sector include joint appointments at professorial level.

Deakin Health is guided by a strong and vibrant commitment to improving the health and wellbeing of all people in Australia and our surrounding region. Please join us in this important work.

## Deakin's Promise to Equity, Diversity and Inclusion

At Deakin we value diversity, embrace difference and nurture a connected, safe and respectful community. We recognise that our academic workforce is increasingly diverse with a variety of backgrounds, experiences and responsibilities. In many cases, academic careers can be put on hold through career breaks or part-time work arrangements to take on caring duties, gain experience in other industries, for medical reasons or other personal circumstances.

Achievement relative to opportunity places more emphasis on the quality as opposed to the quantity of research outputs. In your application, we encourage you to comment on your achievements relative to opportunity.



# School of Medicine

The School has come a long way in a short time, since its foundation in 2006. Our vision includes equipping all of our students with the education and experience necessary to achieve the goal of work readiness and professionalism in their chosen profession. We are also focussed on addressing workforce shortages in Australia, especially in rural and remote areas.

We accepted our first medical students in 2008 to our postgraduate medical degree, and our graduating interns have already established strong links with regional and rural hospitals, together with the Melbourne city hospitals. The medical degree is a 4 year course, with 2 years of pre-clinical education at the University campus in Waurn Ponds, and then 2 years clinical education and experience in one of our clinical schools. The School has received approval from the University and from the Australian Medical Council to transition to the Doctor of Medicine Degree (MD) from the BMBS degree. This will commence in 2019.

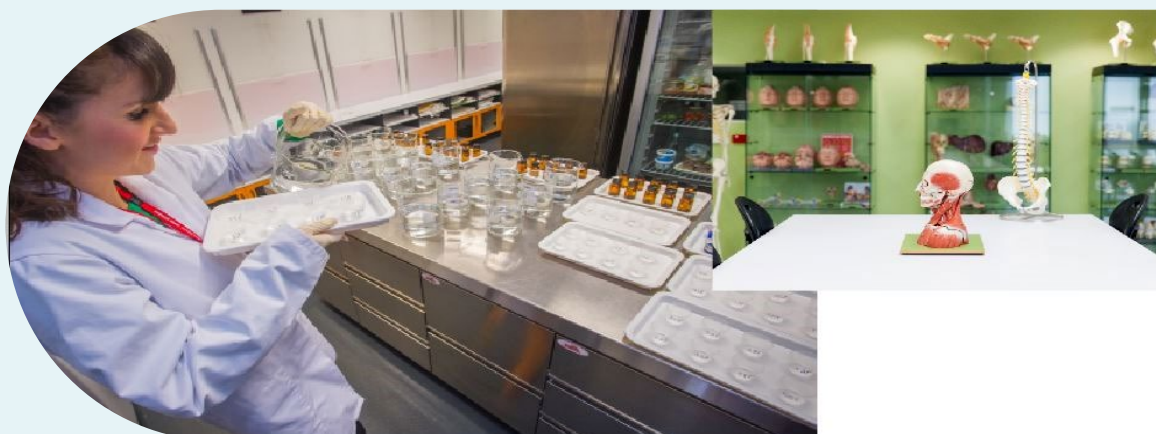
The School has also developed other new undergraduate and postgraduate programs, namely Optometry, Medical Imaging, Agricultural Health and Medicine, Units in the Bachelor of Biomedical Science and Health Science Majors, Bachelor of Health and Medical Science Honours, a MBA (Healthcare Management) and a Masters Degree in Surgical Research. We also have a significant number of M Phil (Masters by Research) and PhD students in both basic clinical sciences and clinical research. Our research capability and performance has grown rapidly. This involves academic staff at the Waurn Ponds campus and those working in primary and secondary care throughout the region.

We have four research “pillars” in the School: Infection, Immunity and Cancer; Neurosciences; Metabolic/Musculoskeletal medicine; and Rural Health research. School staff participate in the University’s Strategic Research Centres and work with our community partners to achieve world class results.

Our Strategic Research Centres and partners include:

- The Molecular and Medical Research Strategic Research Centre (MMR)
- Psychiatric Health and Epi-Centre for Healthy Ageing Strategic Research Centre (IMPACT)
- Metabolic Research Unit (MRU)
- Centre for Rural Emergency Medicine
- Geelong Centre for Emerging Infectious Diseases
- National Centre for Farmer Health
- Epworth Hospital Geelong
- University Hospital Geelong
- CSIRO Australian Animal Health Laboratory
- The Western Alliance Academic Health Science Centre
- The Kardinia Health GP Superclinic

As a School we are committed to providing excellent education, research facilities and services for students and staff. We look forward to welcoming you to the School of Medicine.



# Postdoctoral Research Fellow

## RESEARCH FELLOW GRADE 1

The Postdoctoral Research Fellow will initiate and conduct research in the areas of viral immunology, influenza biology and the extracellular matrix.

The Postdoctoral Research Fellow is expected to contribute to the research output of the Centre for Molecular and Medical Research.

This is a new fixed-term position funded by a grant from the NHMRC under the Project Grant Scheme. The other project partners are the University of Georgia and the Lerner Research Institute, Cleveland Clinic.

### PRINCIPAL ACCOUNTABILITIES

The Postdoctoral Research Fellow is expected to contribute towards the research effort of the University and develop his/her research expertise through the pursuit of defined research projects relevant to the particular field of research.

- Initiate and conduct research under limited supervision either as a member of a team, or independently (where appropriate), to achieve the

objectives of the NHMRC funded project.

- Contribute to building an active national research record, prepare findings for oral and written communication including publications and the generation of external research income.
- Effectively produce data and maintain data protocols. Conduct preliminary data analysis.
- Constructively contribute to a vibrant research team, including participating with colleagues in developing and maintaining links and partnerships with industry and the wider community.
- Promote the activities of the University, particularly those relating to research and research training, within academic and professional communities locally and in Australia.

### DUTIES

- Remain up-to-date with current literature and methods relevant to the area of responsibility.
- Be involved in professional activities, including attendance at conferences and seminars in the field of expertise (subject to availability of funds).
- Undertake experimental design and operation of advanced laboratory and technical

equipment or conduct advanced research procedures.

- Contribute to teaching in relation to the research project.
- Develop research-related material for teaching or other purposes, with appropriate guidance from other staff.
- Undertake some administrative functions primarily connected with the area of research.
- Provide advice to postgraduate/honours students within the field of the staff member's research.
- Attend meetings associated with the research project(s) with which the researcher is involved and other and other School of Medicine and CSIRO AAHL meetings as appropriate.

### SPECIFIC

#### EXPERIMENTAL/RESEARCH TASKS

- To elucidate the role of extracellular matrix enzymes in influenza pathogenesis and immunity using flow cytometry and immunohistochemistry
- Oversee the maintenance of multiple knockout/transgenic mouse lines.
- Maintain cell lines for use in influenza virus infection studies.
- Produce virus stocks.

## Performance expectations

Annual performance objectives and expected outcomes will be defined for this role in accordance with the Minimum Standards and Typical Duties for Academic Levels (MSTDALs) and Faculty Research Expectation Models (FREMs). Specific duties will be allocated with reference to the applicable Workload Allocation Model (WAM). These documents are updated from time to time and are available on request.

- Perform in vitro experiments to determine the relationship between extracellular matrix enzymes and influenza immunity.
- Perform in vivo experiments in animal models (including knockout/transgenic lines) to study innate and adaptive immune responses.
- Undergo PC3 training at CSIRO AAHL.
- Participating in meetings, training and other health and safety activities.
- Using equipment in compliance with relevant guidelines, without wilful interference or misuse.
- Must cooperate with the University in relation to actions taken by the University in order to comply with the Occupational Health and Safety and Environmental legislation.

#### **LEVEL OF SUPERVISION AND INDEPENDENCE**

Research is conducted independently, or as part of a team, in the context of frequent consultation with other team members and with the responsible research investigators.

#### **PROBLEM SOLVING AND JUDGEMENT**

The Postdoctoral Research Fellow is expected to exercise judgement on work methods and task sequences within standard practices and procedures and to seek expert advice for work methods that fall outside the standard practices.

Capacity to work independently, to use initiative and to work well within a team setting is expected.

#### **OCCUPATIONAL HEALTH AND SAFETY**

The Postdoctoral Research Fellow will be responsible for:

- Following safe work procedures and instructions.
- Taking reasonable care for the safety of self and others.
- Seeking guidance for all new or modified work procedures.
- Ensuring that any hazardous conditions, near misses and injuries are reported immediately to a supervisor.

## ORGANISATIONAL RELATIONSHIPS

The Postdoctoral Research Fellow reports to the Dean of School through the relevant Research Supervisor.

## ORGANISATIONAL CONTEXT

The appointee will work with support, guidance and / or direction from research only staff classified at Research Fellow (Level B) and above and with an increasing degree of autonomy as the researcher gains greater skills and experience.

## SELECTION CRITERIA - ESSENTIAL

### QUALIFICATIONS

- PhD with a substantial research component.

### EXPERIENCE, KNOWLEDGE & SKILLS

- Immunology knowledge and technical expertise
- Significant flow cytometry experience, including use of software analysis tools such as FlowJo
- Demonstrated skills in the coordination of data collection, data entry and analysis.
- Experience with a range of molecular biology techniques e.g. PCR, cloning, RNA extraction.
- Experience with tissue culture (e.g. isolation and preparation of cell and tissue samples).
- Demonstrated ability to work effectively as a member of an interdisciplinary team.
- Demonstrated ability to plan and conduct high quality research.
- Demonstrated organisational skills including the demonstrated ability to

maintain a high standard of laboratory and data record keeping and a demonstrated ability to meet competing deadlines.

- Demonstrated ability to liaise with (and or negotiate with) research clients.
- Good interpersonal skills, including the ability to interact well with research and technical staff and students and excellent oral, written communication and presentation skills.

## SELECTION CRITERIA - DESIRABLE

- Demonstrated skills in the publication of research journal articles, conference papers, report, or professional or technical contributions and / or demonstrated skills in the preparation of research manuscripts.
- Experience in contributing to the supervision of undergraduate honours and / or research higher degree students.

# Appointment process and how to apply

## Application

Thank you for your interest in the position of Postdoctoral Research Fellow.

Please direct all correspondence and enquiries to:

Professor John Stambas  
Professor, Medical Biology  
+61 3 5227 2487  
john.stambas@deakin.edu.au

## How to apply

Please apply online via:

[deakin.edu.au/about-deakin/work-atdeakin](https://deakin.edu.au/about-deakin/work-atdeakin)

Include cover letter, curriculum vitae and a response to the Selection Criteria.

Please quote reference number:

492633

## Interview process

An initial screening of prospective candidates will take place.

Short-listed candidates will be interviewed by a panel of esteemed colleagues.

Details of professional referees will be required prior to interview.

## Remuneration and benefits

An attractive remuneration package is offered. Salary will be commensurate with qualifications, experience and research record.

Relocation support may also be available.

## Term of appointment

Appointment is full time and fixed term for three (3) years.



# Our locations

Deakin has five campuses, one in **Burwood**, two in Geelong (**Waterfront** and **Waurm Ponds**), one in **Warrnambool** and the vibrant Cloud Campus through which 20% of our students study.

Melbourne has been named the worlds' most liveable city for more than 5 years running\*.

Further information regarding our locations and relocating to Victoria can be found here:

[Our locations](#)

[Considering Relocation](#)

[Geelong/SurfCoast timelapse](#)

*\*The Economist's annual study*

## GEELONG WAURN PONDS CAMPUS

Our Geelong Waurm Ponds Campus is located on the western edge of Geelong and is a thriving regional campus attracting over 8,000 undergraduate and postgraduate on-campus students. It boasts open and inviting spaces for socialising and studying, innovative architecture and spacious new buildings. The Campus features expansive landscaped grounds and extensive sporting facilities. It is home to the Geelong Future Economy Precinct, which provides research and development capabilities and opportunities for university-industry partnerships and new enterprises in the region.

