

Details

Area	Faculty of Health
Team	School of Medicine, Institute for Mental and Physical Health and Clinical Translation (IMPACT)
Location	Waurm Ponds campus or Health Education and Research Building (HERB), Geelong
Classification	Level B
Reports to	Associate Professor in Biostatistics

Deakin

Deakin is a Victorian university with a global impact. We are agile and innovative, and committed to making a positive impact through our excellence in education and research and the contributions we make to the wider community.

Our reputation has been built on the dedication and expertise of our staff. We offer a dynamic, diverse and inclusive working environment with opportunities to grow and develop careers. We believe that a progressive, thriving culture will ensure people choose to come, and stay at Deakin and contribute to our ongoing success.

As one of Australia's largest universities, Deakin has strong global linkages, world-class research and an education portfolio that blends the best of campus and digital delivery into a highly supportive and personalised student experience.

We offer outstanding education founded on the experience we create for our learners and guided by graduate outcomes for successful lives and careers. We undertake globally significant discovery research that benefits our communities through the innovative translation of our ideas into new services, products, policies and capabilities.

Deakin campuses sit on Wadawurrung, Wurundjeri, and Eastern Maar Countries, and the University acknowledges, values and deeply respects its connection with the Traditional Custodians and Elders past and present of these lands and waterways. Deakin is the most popular university destination in Victoria for Aboriginal and Torres Strait Islander students and has a rich history of supporting the ambitions of First Nations students, including through the NIKERI Institute (formerly the Institute of Koorie Education).

Deakin aspires to be Australia's most progressive university, with the principles of diversity, equity and inclusion underpinning our approach to education, research, employability, digital delivery, innovation, and partnerships for impact. Our vision is for an inclusive environment where we value and celebrate diversity, embrace difference and nurture a connected, safe and respectful community. We want Deakin to be a place where all staff and students feel included and respected for their unique perspectives and talents.

[Strategic Plans – Deakin 2030: Ideas to Impact](#)

[Benefits of working at Deakin](#)

Overview

The Faculty of Health is dedicated to being at the forefront of teaching, learning, creating, and social development and fostering cutting-edge research and discovery. The Institute for Mental and Physical Health and Clinical Translation (IMPACT) places high emphasis on research that is solution-led and improves health outcomes for the local and global community. We work closely with industry partners and the government to put findings into practice.

The Research Fellow will initiate, design and conduct productive, high-quality research, scholarship and creative activities generating high impact outputs in their discipline area. They may lead and research activities and is expected to engage collaboratively to develop novel research outcomes. Specifically, the incumbent will be responsible for integrating and interpreting large-scale biological and medical imaging data.

Reporting to the Associate Professor in Biostatistics, the incumbent will:

- Lead computational support for projects focused on high-definition modelling of mental and neurocognitive disorders in a research setting.
- Play a key role in conducting advanced bioinformatics analyses to interpret high-dimensional data and develop predictive models to identify patterns and relationships in biological and medical imaging data.
- Develop and apply innovative computational methods and algorithms to identify biomarkers and therapeutic targets.
- Collaborate closely with interdisciplinary teams, including clinicians, biologists, and computational scientists, to design and implement integrative data analysis pipelines.
- Contribute to developing and maintaining bioinformatics tools and databases that support the research community.
- Prepare technical reports, publications, and presentations to communicate findings to technical and non-technical audiences and present their findings at national and international conferences and publish results in high-impact scientific journals.
- Maintain and curate bioinformatics databases and resources.
- Support researchers and collaborators by performing bioinformatic analysis and advising on the best-suited statistical models.
- Provide bioinformatics support and training to other team members.

Accountabilities

Research and Innovation

- Support, and may lead, applications for research and creative activities, including applications for external competitive funding, external funding for commercialisation and translation activities and other funding demonstrating sustained efforts.
- Build a national reputation, based on a growing, focused body of work recognised for quality, excellence and impact and a growing track record of timely delivery of outcomes for industry partners.
- Initiate, design, conduct and may lead intra- and inter-disciplinary research collaborations, to enable major breakthroughs in knowledge and understanding and solutions to complex problems.

- Initiate, design, conduct and may lead in development of industry partnerships and collaboration to enable major breakthroughs, innovative solutions for future translation into real world impact.
- Initiate, design, conduct and may lead innovation and translation into policies, frameworks, strategy, generation of products, services, new ways of operating, priority setting and or other innovations with positive impact and national recognition. Demonstrate timely and sustained delivery of commercialisation and translation outcomes.
- Supervise honours and/or HDR students with timely completions and productive, high-quality outcomes and provide effective mentoring to HDR students to support professional and career development and employability.
- Adopt and promote a culture of research excellence, innovation and impact and support industry partnerships that provide HDRs with industry experience and establish/expand industry networks to create opportunities for placements.
- Communicates outputs to discipline(s) and the community and ensure impact of academic activity in the field and the community.

University Citizenship and Engagement

- Assist in implementing local citizenship activities and contribute to effectiveness as an influencer.
- Contribute to the implementation of specific aspects of the University's strategic agenda.
- Contribute to the implementation of the University's community engagement agenda.

Selection

Qualifications and experience

- A Ph.D. in Bioinformatics, Computer Science, Computational Biology, or a related field.
- Proven experience in bioinformatics analysis, preferably within a research or clinical setting.
- Proficiency in programming languages such as Python and R, and familiarity with bioinformatics tools and software (e.g., java, javascript, C++, C#, MATLAB).
- A strong track record of scholarly publications using relevant bioinformatics techniques.
- Knowledge of statistical methods and software for bioinformatics applications.
- Strong organisation skills, attention to detail; propensity to structure analytical steps in well-documented and reproducible workflows.
- Excellent problem-solving, analytical and critical thinking skills; collaborative attitude and ability to work in teams with colleagues of heterogeneous scientific backgrounds.
- Ability to manage competing priorities in a fast-paced environment and to work independently.
- Emerging reputation in research and scholarship through publications
- Ability to contribute to communities through research.
- Capacity to contribute to leadership of research and administration.
- Excellent interpersonal skills and a proven ability to establish good working relationships with colleagues.
- Knowledge of regulatory and ethical considerations in medical research (desirable)
- Success in obtaining external research funding (desirable)

Capabilities

- **Emotional Intelligence** manages emotions to positively influence behaviour.
- **Growth Mindset** open to learning and new experiences, invests in development.
- **Communicates** engages others through persuasive and influential communication.
- **Collaborates** cultivates collaboration across Deakin, strives for shared outcomes, builds partnerships.
- **Delivers Outcomes** creates clarity through governance, makes decisions that result in quality outcomes.
- **Plans work** plans the delivery of work while balancing priorities and resources.

Special Requirements

- This position may require the incumbent to travel domestically to attend conferences, events and to represent the university.
- This position requires the incumbent to hold a current Working with children Check

Note The intention of the position description is to provide an outline of scope and responsibilities, at a point in time. Please note, responsibilities may evolve in accordance with organisational needs.