

## Position Description – Research Associate in Computational Biology/Pharmacology

Updated 21 November 2025

POSITION DETAILS	
College	College of Medicine and Public Health
Organisational Unit	Pharmacology
Supervisor	Senior Research Fellow in Computational and Molecular Pharmacology
Classification	Research (Academic) Level A
Employment Type	Fixed-term, full-time (available for 2 years)

POSITION SUMMARY
<p>The Research Associate in Computational Biology/ Pharmacology will undertake research in Pharmacology for the NH&amp;MRC funded project “Dissecting the genetic diversity and therapeutic potential in targeting trace amine receptor 1 (TAAR1) for psychiatric disorders” under the direction of the Chief Investigator. In working with Chief Investigator and research team, the incumbent will assist in leading the design and execution of the research project. The Research Associate in Computational Biology/ Pharmacology will assist with developing, managing and implementing research projects.</p> <p>The Research Associate in Computational Biology/ Pharmacology may assist in leading students involved in the research Project, according to the University’s policies, practices and standards.</p>

UNIVERSITY EXPECTATIONS AND VALUES
<p>All staff at Flinders are responsible for understanding their obligations and responsibilities as set out in the University’s code of conduct and are expected to:</p> <ul style="list-style-type: none"> <li>• demonstrate commitment to the University’s values of Integrity, Courage, Innovation, Excellence and the underlying ethos of being Student Centred;</li> <li>• contribute to the efficient and effective functioning of the team or work unit in order to meet the University’s objectives. This includes demonstrating appropriate and professional workplace behaviours, providing assistance to team members if required and undertaking other key responsibilities or activities as directed by one’s supervisor;</li> <li>• promote and support an inclusive workplace culture which values diversity and embraces the principles of equal opportunity;</li> <li>• perform their responsibilities in a manner which reflects and responds to continuous improvement; and</li> <li>• familiarise themselves and comply with the University’s Work Health and Safety, Injury Management and Equal Opportunity policies.</li> </ul> <p><i>A Nationally Coordinated Criminal History Check (NCCHC) which is satisfactory to the University will be required by Flinders University before the successful applicant can commence in this position.</i></p> <p><i>Staff working in a health care setting are strongly recommended to be fully vaccinated against COVID in line with the SA Health policy.</i></p>

### KEY POSITION RESPONSIBILITIES

The Research Associate in Computational Biology/ Pharmacology is accountable for:

- Assisting with design and implementation of computational methodologies integrating chemical, biological, structural data.
- Assisting in leading the Project by collaborating with the Project Research Team to successfully deliver project milestones and Key Performance Indicators.
- Assisting with the preparation of refereed journal publications arising from the research.
- Contribute to the planning and execution of research by offering new ideas, reviewing relevant literature and other sources of information, actively participating in the production of data and attending seminars, meetings and conferences.
- Contributing to the coordinating, planning and executing the project tasks required to collaborate with industry partners.
- Contributing to ethical, high quality and innovative research and evaluation through activities such as scholarship, quality publication, external grant acquisition and presentations that aligns with the College areas of research strength and focus.
- Assisting principal supervisors with supervision of postgraduate students.
- Establishing and maintaining collaborations within the University, and at State, national and international levels in order to improve research outputs, patents and publications.
- Some out of hours work (including weekends) may be required.
- Any other responsibilities in line with the level of the position as assigned by the Supervisor and/or the University.

### KEY POSITION CAPABILITIES

- Completion of a PhD in Computational Biology/Chemistry/Biochemistry/Pharmacology or a related field or significant progress towards completion of a PhD in these areas.
- Demonstrated experience in molecular modelling, molecular simulations, artificial intelligence, and machine learning in proteins.
- Demonstrated emerging research experience in terms of publications and presentations at a national and/or international level in a relevant field.
- Demonstrated experience in qualitative research methodology.
- Demonstrated ability to deliver project targets on time.
- Demonstrated well-developed interpersonal skills and the capacity to collaborate and engage with diverse stakeholders and industry partners.
- Demonstrated ability to critically review the literature in relevant fields.
- Demonstrated ability to undertake collaborative research and establish and maintain effective relationships with staff and industry.
- Demonstrated excellent oral and written communication skills in an academic environment.
- *Knowledge of molecular biology and molecular mechanisms of GPCR proteins (desirable).*
- *Experience in molecular simulations of membrane proteins (desirable).*