



**Australian
National
University**

Position Description

College/Division:	ANU College of Health and Medicine
Faculty/School/Centre:	John Curtin School of Medical Research
Department/Unit:	
Position Title:	Research Fellow
Classification:	Academic Level B
Position No:	TBA
Responsible to:	Jubilee Joint Fellow Dr Dan Andrews
Number of positions that report to this role:	TBA
Delegation(s) Assigned:	TBA

PURPOSE STATEMENT:

The Research Fellow will join the Andrews group based jointly between the John Curtin School of Medical Research (JCSMR) within the College of Health and Medicine, and the School of Computing (SoCo) within the College of Engineering, Computing and Cybernetics. The group works at the interface of computational biology and data science, working with genome and phenotype data to identify predictors of pathogenicity and disease incidence. The Research Fellow (Andrews) will be expected to conduct research aligned with the interests of the group and be an active contributor to collaborative work with colleagues in both the SoCo and the JCSMR, and further afield. Emphasis will be on leading specific research initiatives within the group, contributing to key publications, contributing to funding applications and overseeing student projects.

KEY ACCOUNTABILITY AREAS:

Position Dimension & Relationships:

The Research Fellow (Andrews) will assist the Jubilee Joint Fellow (Andrews; SoCo and JCSMR) through performing research with biological datasets to characterise pathogenic variation and predict disease incidence in humans and model organisms. The appointee will be a key person to develop and drive collaborative projects between the Andrews laboratory and other teams (at the ANU, other research institutes and hospitals, both nationally and internationally). The Research Fellow (Andrews) will also mentor students and junior members of the Andrews laboratory, distributed between the JCSMR and the SoCo. The Research Fellow (Andrews) will raise the profile of our work through attendance at scientific meetings and contribution to publication of computational aspects of this project.

The Research Fellow (Andrews) will work under the direction of the Jubilee Joint Fellow (Andrews; SoCo and JCSMR) and contribute to the scientific goals and activities of the Andrews group. The position necessarily operates across collaborating laboratories, especially between the JCSMR and SoCo. The position has extensive interaction with collaborators across the ANU and outside the University.

Role Statement:

The Research Fellow will undertake the following duties:

- Conduct research both as a member of a team and independently, and publish findings in journals appropriate to the field.
- Assist in the preparation of grant proposals to relevant funding bodies.
- Occasionally contribute to undergraduate teaching within the School of Computing and/or CHM.
- Co-supervision, or where appropriate supervision, of major honours or postgraduate research projects within the field of the staff member's area of research.
- Provide guidance in the research effort of junior members of research-only academic staff in his/her research area.

- Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise.
- Administrative functions primarily connected with his/her area of research.
- Attend meetings associated with research or the work of the organisational unit to which the research is connected and/or departmental and/or faculty meetings and/or membership of a limited number of committees.
- Other duties as allocated by the supervisor or the Vice-Chancellor consistent with the classification of the position.
- Comply with all ANU policies and procedures and in particular those relating to work health and safety and equal opportunity.

Skill Base

A Level B academic will undertake independent teaching and research in their discipline or related area. In research and/or scholarship and/or teaching a Level B academic will make an independent contribution through professional practice and expertise and coordinate and/or lead the activities of other staff, as appropriate to the discipline.

A Level B academic will normally contribute to teaching at undergraduate, honours and postgraduate level, engage in independent scholarship and/or research and/or professional activities appropriate to their profession or discipline. The academic will normally undertake administration primarily relating to their activities at the institution and may be required to perform the full academic responsibilities of and related administration for the coordination of an award program of the institution.

SELECTION CRITERIA:

- A PhD or equivalent degree in one of computer science, computational biology, genetics, bioinformatics or another relevant discipline, including relevant experience in data science and development of software for analysing data.
- Demonstrated aptitude for computational biology and bioinformatics in a research environment.
- A history of high-quality publication of research findings in relevant journals.
- Demonstrated experience with data science and non-trivial data analysis with programming languages such as Python and/or R.
- Experience with or demonstrated aptitude for data science, medical genetics, genomics, machine learning, bioinformatics pipelines, software development and high-performance computing.
- Evidence of being team-oriented and having worked successfully with a diverse range of collaborators.
- Experience with or demonstrated aptitude for scientific computing and unix-based computer systems.
- A demonstrated understanding of equal opportunity principles and Work, Health and Safety, and a commitment to the application of these policies in a university context.

The ANU conducts background checks on potential employees, and employment in this position is conditional on satisfactory results in accordance with the Background Checking Procedure which sets out the types of checks required by each type of position.

Supervisor/Delegate Signature:		Date:	August 2022
Printed Name:	Dan Andrews	Uni ID:	