



Position Description

College/Division:	ANU College of Health & Medicine
Faculty/School/Centre:	ANU Medical School
Department/Unit:	Academic Department of Surgery
Position Title:	Research Fellow / Lecturer
Classification:	Level B
Position No:	TBA
Responsible to:	Head, Department of Academic Surgery
Number of positions that report to this role:	TBA
Delegation(s) Assigned:	TBA

PURPOSE STATEMENT:

ANU has an international reputation for research and education relevant to the health and well-being of the population of Australia, as well as that of the developing world. This is achieved through discovery research, applied research in health service settings, research-led teaching in health and medical sciences, and the translation of research findings into practice and policy. The ANU College of Health and Medicine comprises the Research School of Psychology, the ANU Medical School, the John Curtin School of Medical Research and the Research School of Population Health. These schools work together to deliver world-class research and education across the spectrum of medicine and health-related fields, working in partnership with the health sector at local, national and international levels.

The Research Fellow/Lecturer is expected to undertake work in all three areas of academic activity –research, education and service. The allocation of time to each area will be discussed with the position supervisor annually and be reflective of the appointees research agenda, school and interdisciplinary teaching requirements and leadership opportunities within the School environment. The Research Fellow/Lecturer may also be required to supervise or mentor less senior staff and students, and undertake leadership roles as applicable. The staff member will contribute cooperatively to the overall intellectual life of the School, College and University.

POSITION DIMENSION AND RELATIONSHIPS:

The Research Fellow/ Lecturer will be a member of the ANU Medical School, accountable to the Head, Department of Academic Surgery. The Research Fellow / Lecturer will be expected to work collegially, leading by example to develop and maintain effective, productive and beneficial workplace relationships within the all academic and professional School and College staff, other students and honorary appointees, as well as with industry stakeholders. This position will also have a mentoring role for students and will engage in collegial and productive collaborations with local, national and where possible, international colleagues.

Role Statement:

In their role as an Academic Level B the Research Fellow / Lecturer is expected to:

1. Undertake independent research in the area of modelling physiology with a view to support and develop the ANU initiative ***Systems Thinking in Health and Medicine***.
2. Develop models and concepts of modelling in human physiology in order to support medical education of students and staff.
3. Underpin the development of a new ANU Centre for Simulation Based Training in Healthcare.
4. Underpin the ANU initiative in Space Medicine and Space Physiology by development of models of human and animal physiology under normal and microgravity conditions
5. Publish original and innovative results in refereed journals, present research at academic seminars and at national and international conferences, and collaborate with other researchers at a national and/or international level.
6. Actively seek and secure external funding including the preparation and submission of research proposals to external funding bodies.
7. Contribute to the teaching activities of the School at the undergraduate and graduate levels. This includes, but is not limited to, the preparation and delivery of lectures and tutorials, the preparation of online material, marking and assessment, consultations with students, acting as subject coordinators and the initiation and development of course/subject material.
8. Supervise students working on individual or group projects at undergraduate, honours, graduate-coursework levels. Supervision of research students including PhD students.
9. Supervise postdoctoral Fellow's and research support staff in your research area.

10. Actively contribute to all aspects of the operation of the School. This may include representation through committee memberships.
11. Assist in outreach activities including to prospective students, research institutes, industry, government, the media and the general public.
12. Maintain high academic standards in all education, research and administration endeavours.
13. Take responsibility for their own workplace health and safety and not willfully place at risk the health and safety of another person in the workplace.
14. A demonstrated understanding of equal opportunity principles and policies and a commitment to their application in a university context.
15. Other duties as required that are consistent with the classification of the position.

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:

1. A PhD in the area of medical systems engineering and/or physiology modelling at human organism level or the systems physiology of disease at tissue level. A postgraduate qualification in technical or engineering sciences with evident connectivity into human physiology and Medicine or an equivalent combined post-graduate degree in Medicine and physics/technical sciences would be highly regarded.
2. A track record of research in the field of medical-physiological modelling, technical medicine, or systems organisation at organism or tissue level as evidenced by publications in peer-reviewed journals and conferences, a record of developing and maintaining collaborations and by other measures such as awards, and invitations to present at conferences.
3. Evidence of the ability to articulate and prosecute innovative research in the field of medical engineering and/or modelling and a vision for the activities they will undertake at the ANU.
4. A demonstrated ability and commitment to apply for competitive external funding to support individual and collaborative research activities.
5. Evidence of an ability and willingness to teach at all levels.
6. An ability to supervise and graduate high quality PhD/Masters research students.
7. The demonstrated ability to work as part of a team, contributing to team management and a demonstrated ability to meet deadlines.
8. Excellent oral and written English language skills and a demonstrated ability to communicate and interact effectively with a variety of staff and students in a cross-disciplinary academic environment and to foster respectful and productive working relationships with staff, students and colleagues at all levels.
9. A demonstrated understanding of equal opportunity principles and policies and a commitment to their application in a university context.

Delegate Signature:

Date:

Printed Name:

Position:

References:

[Academic Minimum Standards](#)