

## Position Description – Research Fellow in Eco-epidemiology/Human Ecology

Updated 2 May 2023

POSITION DETAILS	
College	College of Science and Engineering
Organisational Unit	Ecology, Evolution, and Environment
Supervisor	Matthew Flinders Professor of Global Ecology
Classification	Research (Academic) Level B
Employment Type	Fixed-term, full-time

POSITION SUMMARY
<p>The Research Fellow will be responsible for developing spatial eco-epidemiological models for the populations of Indigenous Australians exposed to various novel diseases upon contact with the first European settlers in the 18<sup>th</sup> Century. The Fellow will develop code to model how various diseases spread through and modified the demography of these populations from first contact with Europeans until the latter established permanent colonies across Australia. The Fellow will have an advanced capacity to develop eco-epidemiological models that expand on the extensive human demographic models already developed under the auspices of the Australian Research Council Centre of Excellence for Australian Biodiversity and Heritage (EpicAustralia.org.au).</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 National Police Certificate 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>An up to date COVID-19 vaccination may be required as a condition of employment, in accordance with the Flinders University <a href="#">COVID-19 Vaccination Policy (2022)</a>. If required, any offer of employment will be subject to the successful candidate presenting their COVID-19 Digital Certificate as evidence of vaccination or showing evidence of a valid medical exemption, where relevant.</i></p>

### KEY POSITION RESPONSIBILITIES

The Research Fellow in **Eco-epidemiology / Human Ecology** is accountable for:

- Developing advanced spatial eco-epidemiological models embedded within quantitative frameworks of human ecology
- Actively contributing to the research project by collaborating with the Research Team to successfully deliver project milestones and Key Performance Indicators
- Independently contributing to the planning and execution of research by offering new and innovative ideas, reviewing relevant literature and other sources of information, actively participating in the production of data, contributing to the writing and editing of grant applications and attending seminars, meetings and conferences
- Independently contributing to ethical, high-quality, and innovative research and evaluation through activities such as scholarship, publishing in recognised high quality journals and assisting the preparation and submission of bids for external research funding
- Supervision of Honours and postgraduate research projects
- Establishing and maintaining collaborations within the University, and at State, national and international levels to improve research outputs, patents and publications.
- Some out-of-hours work (including weekends), interstate and overseas travel, 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 human ecology, epidemiology, ecological modelling, or related fields
- Demonstrated research experience in terms of publications in high-quality journals, attraction of external competitive grants and presentations at a national and/or international level in fields related to position
- Demonstrated experience in coding advanced spatial models (including demography, epidemiology, etc.)
- Demonstrated experience delivering project targets on time
- Demonstrated ability to plan and execute data collection and analysis
- Demonstrated well-developed interpersonal skills and experience in collaborating and engaging with diverse stakeholders and industry partners
- Demonstrated ability to review the literature in relevant fields.
- Demonstrated experience to do collaborative research and establish and maintain effective relationships with partners
- Demonstrated excellent oral and written communication skills in an academic environment