

Position Description – Lecturer in Biosecurity Risk Modelling

Updated 19 January 2026

POSITION DETAILS

College	College of Science and Engineering
Organisational Unit	Natural Sciences
Supervisor	Dean, People and Resources (or Delegate)
Classification	Academic Teaching & Research (Balanced) Level B
Employment Type	Continuing, full-time

POSITION SUMMARY

The Lecturer will, under routine to general supervision, produce quality research and deliver undergraduate and/or postgraduate teaching in the broad area of biosecurity risk modelling with a specific focus on predicting various biosecurity risks under different future climate and socio-economic scenarios.

The teaching component includes the development of innovative teaching materials, multi-mode teaching delivery, including face to face and online, and other innovative and contemporary teaching and learning strategies, appropriate for the discipline.

The incumbent will make independent high-quality contributions to research and/or creative activity, through activities such as quality publications, external grant acquisition and research student supervision.

The incumbent will also contribute to strengthening existing partnerships or exploring new partnerships with external stakeholders that have potential for providing improved teaching, learning and/or research outcomes for the University.

The incumbent will prioritise, coordinate, monitor workflow and provide informal day-to-day feedback to research support staff and casual academic teaching staff according to the University's policies, practices and standards.

UNIVERSITY EXPECTATIONS AND VALUES

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:

- demonstrate commitment to the University's values of Integrity, Courage, Innovation, Excellence and the underlying ethos of being Student Centred;
- 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;
- promote and support an inclusive workplace culture which values diversity and embraces the principles of equal opportunity;
- perform their responsibilities in a manner which reflects and responds to continuous improvement; and
- familiarise themselves and comply with the University's Work Health and Safety, Injury Management and Equal Opportunity policies.

KEY POSITION RESPONSIBILITIES

The Lecturer in Biosecurity Risk Modelling is accountable for:

- Planning and delivering ethical, high-quality and innovative research in an area related to biosecurity risk modelling, including climate-related projections, spatial prioritisation, optimal intervention scenarios, and socio-economic feedback, through activities such as quality publication, external grant acquisition, scholarship and presentation that aligns with the College's areas of research strength.
- Contributing to the organisation, planning, delivery and evaluation of teaching primarily within the suite of undergraduate and/or postgraduate topics/courses in the broad area of biosecurity risk, with specific focus on the underlying quantification and modelling of invasive species distributions, expansions, economic impacts, intervention scenarios, quantitative damage assessments, health implications, and/or sustainability futures, through topic coordination, delivery of lectures, tutorials, laboratories, placements or other contemporary teaching strategies.
- Delivering inspiring and innovative teaching informed by approaches that enhance the student experience and support students with academic and/or other challenges impeding their academic progress.
- Focusing and contributing to supervision of research student programs.
- Actively participating in College internal and external quality assurance and accreditation processes.
- Actively participating in high performing multi-disciplinary teams with an education and research focus and contribute to the development of a respectful, trusting and collaborative working environment.
- Developing and maintaining strategic relationships and networks with a range of stakeholders including industry and professional associations and organisations.
- Actively contribute to the integration and management of aspects of the academic and administrative life of the College.
- Some out of hours work (including weekends) as well as rural SA, 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.

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.

KEY POSITION CAPABILITIES

- Completion of a PhD, or equivalent qualification in an area of quantitative and model-focussed components related to biosecurity risk analysis and optimal interventions or related areas.
- Demonstrated evidence of, or capacity to, undertake high quality teaching in a tertiary environment, with a focus on quantitative biosecurity risk analyses, including involvement in topic coordination and curriculum design.
- Demonstrated ability to develop and deliver a range of topics related to biosecurity risk modelling at an introductory and advanced level and to contribute broadly to other introductory biosecurity and risk-related topics.
- Demonstrated evidence of a strong research track record (for career stage) in an area related to biosecurity risk analysis and its implications as a function of climate change, non-native species invasions, and socio-economic and policy change, including evidence of quality publications and attraction of external competitive grants.
- Demonstrated knowledge in advanced quantitative techniques, statistical methodology, modelling complex systems, databasing, and interdisciplinary analytical frameworks.
- Demonstrated knowledge of advanced computer coding to aid approaches described in previous point.
- Demonstrated understanding of the nexus between teaching and learning, research and scholarship.
- Demonstrated excellent oral and written communication skills and interpersonal skills, including the demonstrated ability to establish effective relationships with staff, students and industry.

- Demonstrated experience and successful track record in supervision of honours and higher degree students (Desirable).
- Demonstrated capacity to contribute to leadership in the area of curriculum reviews and internal and external accreditation activities. (Desirable)