

Position Description – Lecturer in Quantitative Climate Dynamics

Updated 2 March 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 quantitative climate systems dynamics, with a specific focus on future implications of climate change for ecosystems, biodiversity, sustainability, and human societies in general.

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 climate science and its effects on the biological and socio-economics of sustainability.

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 Quantitative Climate Dynamics is accountable for:

- Planning and delivering ethical, high quality and innovative research in an area related to climate dynamics and the implications of climate change, and/or ecosystem/biodiversity change, and/or socio-economic effects, and/or health-related challenges of climate change 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 climate dynamics, with specific focus on the underlying quantification and modelling of ecosystem/biodiversity change, sustainability, socio-economics, and/or health, 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 climate dynamics of global systems.
- Demonstrated evidence of, or capacity to, undertake high quality teaching in a tertiary environment, with a focus on quantitative climate dynamics, including involvement in topic coordination and curriculum design.
- Demonstrated evidence of a strong research track record (for career stage) in an area related to climate dynamics and the implications of climate change, and/or ecosystem/biodiversity change, and/or socio-economic effects, and/or health-related challenges of climate 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)