Associate Lecturer / Lecturer in Quantitative Genetics and Genomics

University of New England

Associate Lecturer / Lecturer in Quantitative Genetics and Genomics

Faculty:	Science, Agriculture, Business and Law
Position Number:	0000011481
Employment Type:	2 Year Fixed-Term – Early Career Academic (ECAP)
School:	Environmental and Rural Science
Reports to:	Head of School ERS
Salary Range:	$66,670 - $90,056 per annum (Level A) $94,736 to $112,279 per annum (Academic Level B)

Additional Information: Potential applicants are encouraged to email Professor Julius van der Werf at jvanderw@une.edu.au to arrange a time to discuss this opportunity. To find out more about the School visit our Website

University of New England

The University of New England (UNE), Armidale, is a regionally based, globally networked university that is renowned for the quality of its student experience and the excellence of its research specialisations. UNE pioneered teaching to external students making it the most experienced provider of distance and innovative online education. Currently there are over 23,000 students (80% of whom are distance/online students) and approximately 1300 academic and general staff. The *UNE Strategic Plan 2016–2020: Together, we can do this* was developed to outline the strategies that will allow us to realise our vision. The following values and plans express the University's culture, structure, direction, and expectation of staff members' conduct, capability and contributions:

- UNE 2016 - 2020 Strategic Plan
- UNE Research Plan 2016 - 2020

The Faculty

The Faculty of Science, Agriculture, Business and Law (SABL) is an innovative collaboration of scientists, researchers and academics designed to deliver outstanding education and practical learning. The Faculty consists of over 700 staff and postgraduate students with international reach and active industry collaborations with partners across Asia, the Indo-Pacific and Africa. Teaching and learning in Agriculture, Environmental Science, Biomedical Science, Science and Technology, Economics, Business and Law enable unique opportunities to build both deep domain-specific and broad trans-disciplinary knowledge; consolidate real-world experience with higher-education skills, and extend undergraduate expertise with globally recognised discipline mastery that accelerates careers and demonstrates value in an ever-changing world. The Faculty's vision, mission and aspirations are outlined in the Faculty of Science, Agriculture, Business and Law Strategic Plan 2019-2025.

The School

Environmental and Rural Science (ERS) is a research-intensive School that attracts outside and internal competitive funding to support research at the leading edge of agricultural, ecological and biological research nationally and internationally. The School spans seven disciplines: Agronomy and Soil Science, Animal Science, Botany, Earth Sciences, Ecosystem Management, Genetics and Zoology.

The Role

As a Lecturer in Quantitative Genetics and Genomics you will contribute to undergraduate and postgraduate coursework teaching, and higher degree research student supervision in Animal Science, and engage in existing research projects under the direction of senior staff. You will also be expected to attract external grant funding, and develop an independent research portfolio encompassing a higher degree research student group for which you act as primary supervisor.

You will be actively publishing high-quality and high-impact research and will engage with industry and other external stakeholders to attract research funding to further the University's research strengths in animal production systems. You will be required to maintain scholarly, research and professional activities relevant to the discipline in support of UNE's published plans and priorities and to perform administrative duties and service, outreach and engagement roles appropriate to the level and expertise of the appointment.

Teaching duties will include the delivery and ongoing development of coursework materials aimed at undergraduate and postgraduate coursework students in both online and on-campus delivery modes, covering aspects of quantitative genetics and genomics with applications to animal breeding, with potential extensions to plant breeding and human medicine.
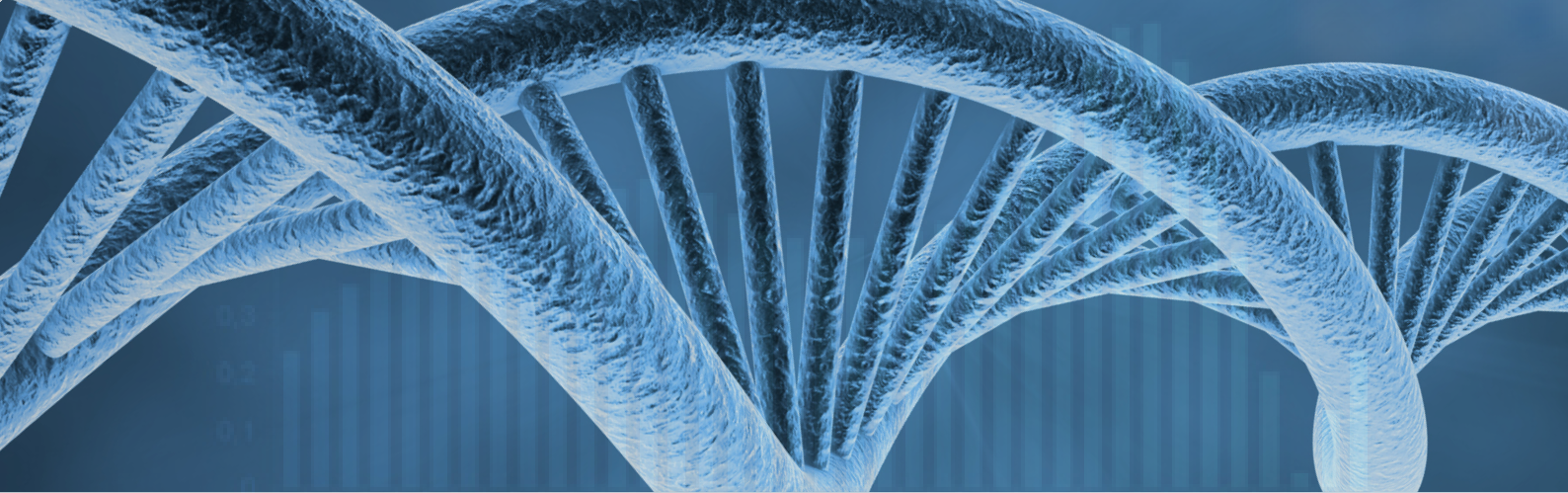
You will also be required to attract and supervise Honours, postgraduate coursework and higher degree research students and help build a student research group for which you act as primary supervisor.

Key Responsibilities

Teaching and Supervision

1. Conduct lectures, tutorials, practical classes, student field excursions and intensive schools

2. Design and develop subject material for online and on-campus delivery in keeping with discipline and industry directions

3. Act as unit coordinator and manage units and student engagement through the learning management system (currently Moodle)

4. Provide high quality instruction and support to coursework undergraduate and postgraduate students

5. Conduct marking and assessment

6. Supervise research projects of Honours, special topic, coursework Masters and higher degree research (HDR) students

Research and Scholarship

7. Undertake and publish independent research of high quality, impact and engagement

8. Collaborate with national and international colleagues, including industry partners

9. Apply for competitive external funding, including category 1 funding (e.g. Australian Research Council and agricultural research and development corporations)

Academic Leadership/Service

10. Liaise effectively with internal and external networks to foster collaboration, innovation and a positive culture

11. Engage with disciplinary and professional communities to establish beneficial partnerships and take an active role in the School and discipline to enhance progress towards stated objectives

12. Participate in outreach and engagement activities

Note: It is not the intention of the position statement to limit the scope or accountabilities of the position but to highlight the key responsibilities of the position. The responsibilities listed above may be altered in accordance with the changing requirements of the role.

How you will be assessed for the role

The UNE Core Capability Framework describes six core capabilities for all staff at UNE. Your merit will be assessed based on the demonstration of all or most of the following UNE core capabilities. For full detail please refer to the UNE Core Capability Framework:

- Shapes and Supports Strategy
- Leads and is Open to Change
- Acts with Courage and Integrity
- Delivers and Achieves Results
- Develops and Maintains Relationships
- Communicates with Influence

You will also need to exhibit the knowledge, educational requirements, skills and experience required for the position.

To Apply

Your application should be comprised of:

1. **1-2 page Cover Letter** outlining who you are, your strengths and qualifications, and why you are interested in the role at UNE;

2. **A Current Resume** containing details of three referees. At least one referee should have a thorough knowledge of your work over the past 2 years as your manager or supervisor;

3. **Responses to the Selection Criteria** below explaining how you best meet these requirements. Your examples should be based on previous performance/experience and you should clearly explain your level of involvement in the example activity, what you have done, how, why, with whom and what the outcomes were.

In preparing your application you should refer to the attributes described in the UNE Core Capability Framework document attached.

Selection Criteria

Knowledge & Education	1. A PhD awarded within the last 5 years (or near completion) in quantitative or statistical genetics or genomics or a closely related field.
Occupation Specific	2. Demonstrated experience in tertiary level teaching and student research supervision relevant to the discipline, including evidence of a commitment to best-practice teaching and a willingness to adopt new teaching methods in response to student needs in both on-campus and online modes.
	3. Demonstrated research capacity, including a record of recent, high-impact publications relevant to the discipline, and evidence of success in applying for and obtaining external competitive research funding.
	4. Research experience in the genetic and statistical analysis of genomic data, including the use of public databases in bioinformatics.
	5. A demonstrated high level of competence in computer programming and statistical analysis.
Core Capabilities relevant to the Role Shapes and Supports Strategy Develops and Maintains Relationships Communicates with Influence	6. Demonstrated innovative approach to industry and cross-institutional collaboration to maximise the quality, impact and engagement of strategically aligned research.
	7. Excellent interpersonal and engagement skills with demonstrated ability to perform effectively within a team and develop beneficial internal and external professional relationships.
Acts with courage and integrity Delivers and achieves results Leads and is open to change	8. Demonstrated ability to manage self and take responsibility for achieving collective outcomes, team welfare and a positive culture.
	9. Demonstrated ability to recognise, manage and overcome challenges in a collaborative and inclusive environment.
Desirable Criteria	10. Experience in the delivery of tertiary level teaching to distance students via online teaching.
	11. Familiarity with livestock production systems and a broad understanding of the role of genetic improvement therein.
	12. A high level understanding of quantitative genetics and its application in animal and/or plant breeding programs.
	13. Experience or training in leadership, people management and supporting staff and students.

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