

Position Statement

Faculty:	Faculty of Science, Agriculture, Business and Law	Position Number:	0000014462
School:	School of Environmental and Rural Science – Animal Science	Classification Level:	Level B
Reports to:	Associate Professor in Livestock Production	Location:	Armidale
Number of direct reports:	Nil		

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 26,000 students (84% of whom are distance/online students) and approximately 1,200 academic and general staff. The UNE decadal strategic plan 2021-2030, Future Fit, has been developed to guide the University to deliver on its enduring vision to support the aspirations of individuals in communities, and communities within regions, in a digital age.

- [Future Fit 2021-2030](#)

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

The School of Environmental and Rural Science (ERS) is a research-intensive School that attracts external 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, Zoology, Botany, Earth Sciences and Ecosystem Management.

The Role

This position will support the reputation and infrastructure that UNE has established to become the leading institution for R&D in the mitigation of methane emissions from livestock through nutritional technologies. UNE has the strongest array of methane measurement capability anywhere in the world

and produced more than 40 refereed methane publications since 2015. Extensive on-campus and increasing SMARTfarm measurement technologies offer the prospect of scaling UNE's existing reputation in methane mitigation to underpin UNE and its partners as Australia's lead national and international R&D provider in this field. The opportunities for obtaining new long-term investment in mitigation R&D are significant and growing. The position directly delivers on UNE's Future Fit thematic research priorities of Food Security (Food technologies and Future Food) and Better Health (Healthy Planet).

Your specific responsibilities include:

1. Leading delivery of externally funded research projects in the field of livestock nutrition and methane reduction.
2. Preparation and implementation of in vivo cattle and sheep experiments, including animal husbandry and care, sampling of animals and laboratory analysis
3. Analysing and reporting experimental data.
4. Participate in research outreach and engagement activities
5. Preparing publications of livestock nutrition and methane research to contribute to maintaining UNE's ERA 5 rating in Animal Production.
6. Contributing to the supervision of HDR students in the field of livestock methane management, and mentoring of animal science HDR students more broadly in experimental design and analysis
7. Contributing to developing and obtaining of external research funding in the field of livestock nutrition and methane management, including development of research proposals
8. Contributing to building and development of strong partnerships with research funding bodies and industry partners
9. Liaise with internal and external networks to foster collaboration and sharing of ideas
10. Engage with disciplinary and professional communities to establish beneficial partnerships
11. Teach undergraduate coursework units in relevant fields of expertise

This position will deliver research on a range of projects testing nutritional strategies, in particular to reduce methane emissions in ruminant livestock. The position will be responsible for implementing existing projects and preparing and submitting applications to funding bodies for additional research, and further developing the existing strengths of UNE in the field of livestock nutrition, in particular, methane emission reduction. The position will have a role in implementing animal experimental research, as well as meta-analysis and modelling of methane emissions, and the interaction of emissions with animal nutrition and growth. The position will contribute expertise in experimental design and analysis to the animal science discipline. The position will collaborate with the existing academics and technicians in the broad fields of ruminant research and teaching at UNE who constitute a Ruminant Research Group within the discipline. While focused on research, the position will also provide teaching expertise aligned with the research focus of the position, in the fields of biochemistry, statistics and animal nutrition.

General Standard

A Level B research-only academic is expected to carry out independent and/or team research within the field in which he/she is appointed and to carry out activities to develop his/her research expertise relevant to the particular field of research.

Specific Duties

Specific duties required of a Level B research-only academic may include:

- The conduct of research as a member of a team or independently, and the production of conference and seminar papers and publications from that research.
- Supervision of research-support staff involved in the staff member's research.
- Guidance in the research effort of junior members of research-only academic staff in his/her research area.
- Contribution to the preparation, or where appropriate individual preparation, of research proposal submissions to external funding bodies.
- Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise.
- Administrative functions primarily concerned with his/her areas of research.

- Occasional contributions in the teaching program within the field of the staff member's research.
- Co-supervision, or where appropriate supervision, of major honours or postgraduate research projects within the field of the staff member's area of research.
- Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental and/or Faculty meetings and/or membership of a limited number of committees.

Skill Base

A Level B research-only academic will normally have completed a relevant doctoral qualification or have equivalent qualifications or research experience. In addition he/she may be expected to have had post-doctoral research experience which has resulted in publications, conference papers, reports or professional or technical contributions which give evidence of research ability.

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 as they relate to the role:

- 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 attributes required for the position.

Selection Criteria

1. PhD or equivalent in ruminant nutrition
2. Experience in organization and implementation of in vivo research experiments using cattle and sheep
3. An emerging scholarly research track record of publications in leading peer-reviewed journals
4. Excellent interpersonal, written and oral communication skills, especially in working with research teams, including supervising and mentoring more junior team members, and effectively collaborating with team leaders.
5. Outstanding interpersonal and engagement skills with demonstrated ability to perform effectively within a team and develop effective professional relationships
6. Strong ability to critically analyse data resulting from ruminant nutrition research, including by statistical modelling
7. Competence in laboratory methodologies and demonstrated ability to learn, research and adapt new experimental and laboratory methodologies
8. Deep knowledge of the mechanisms of greenhouse gas emissions in ruminants, and experience in measurement of methane and other gas emissions from ruminant animals