

**The University of Waikato
Te Whare Wānanga o Waikato**

POSITION DESCRIPTION

Postdoctoral Fellow

Vision

We will

- deliver a world-class education and research portfolio
- provide a full and dynamic university experience which is distinctive in character
- pursue strong international linkages to advance knowledge

The over-arching themes of this *Vision* are:

- Excellence
- Distinctiveness
- International Connectedness

Values

Ko te mana o Te Whare Wānanga o Waikato ka herea ki tō tātou:

- Tū ngātahi me te Māori
- Mahi pono
- Whakanui i ngā huarahi hou
- Whakarewa i te hiringa i te mahara

The University of Waikato places a high value on:

- Partnership with Māori
- Acting with integrity
- Celebrating diversity
- Promoting creativity

1. GENERAL

The Division of Health, Engineering, Computing and Science (HECS) comprises the Schools of Health; Engineering; Computing and Mathematical Sciences, and Science. The Division also has several research units, including the Environmental Research Institute and commercial/equipment units which embody staff and research activities.

The School of Science provides teaching and research in several academic programmes including: Aquaculture, Biomedical Science, Chemistry, Earth Sciences, Ecology and Biodiversity, Environmental Sciences, and Molecular and Cellular Biology. The School offers a range of qualifications at undergraduate and postgraduate levels which are delivered on both the University of Waikato Hamilton campus and the Tauranga campus.

2. POSITION PURPOSE

The Postdoctoral Fellow is a postdoctoral academic appointment resourced by a contract to the Global Research Alliance on Agricultural Greenhouse Gases: "Early career researcher activities in support of modelling and measuring agricultural management on peat soils to enhance removals and sequestration of carbon." The Fellow will have a strong interest in greenhouse gas measurement at hectare scales from agricultural and/or peatland ecosystems. They will be expected to participate in applicable duties within the School/Faculty and potentially contribute to teaching where appropriate.

The main duties of this postdoctoral role will be to assist with running and maintaining of three eddy covariance towers over peat, calculating carbon balances, producing papers and supporting reporting responsibilities. Contribution to some teaching.

This position is within an established research team with expertise in eddy covariance approaches for farm scale assessments of greenhouse emissions. Training will be provided but there is an expectation of movement to independent work while being supported in a strong team in collaboration with colleagues at Manaaki Whenua-Landcare Research.

3. ACCOUNTABILITY

The Postdoctoral Fellow is responsible to the Professor as the Lead Researcher.

4. FUNCTIONAL RELATIONSHIPS:

Dean
Other School staff
Research and Enterprise Office
Students
External research organisations

5. KEY TASKS

Having regard to the aims and objectives and the long-term strategic goals of the School, the Division and the University the primary objectives of the Postdoctoral Fellow include:

- Conduct high quality research related to measuring the impacts of agricultural management of peat soils to reduce carbon losses with a focus on controls by water dynamics and contribute to knowledge development through scholarship, publication and conference and public presentations.
- Participate as a new scholar in Te Aka Mātuatua - School of Science
- Collaborate with academic colleagues and relevant stakeholders.
- Contribute to teaching in undergraduate and postgraduate programmes where appropriate.
- Participate in the maintenance of a safe and healthy work environment for self and others including students. Comply with and undertake responsibilities set out in the University's Health and Safety Policy.
- Any other duties as required that are consistent with the position held, other than in exceptional circumstances such as rehabilitation after injury or sickness.

NOTE: Staff have annual objectives, development and reflection (ODR) meetings with their manager. New staff normally attend such a meeting approximately three months after taking up their appointment.

6. PERFORMANCE STANDARDS

The Postdoctoral Fellow will be performing satisfactorily when:

- Research is carried out as planned, and project milestones are achieved.
- Expertise in the research area is disseminated and available to University staff, students and stakeholders as arranged.
- Contributions made to administration and other School/Faculty activities demonstrate initiative, engagement and collegiality.
- Relevant collaborations, partnerships and relationships are developed.
- Safe and healthy work practices are followed. University policies, procedures, relevant work standards and statutory obligations are complied with.

PERSON SPECIFICATION

EDUCATIONAL QUALIFICATIONS

- PhD in a relevant field, e.g., ecosystem-scale greenhouse gas or water flux measurements, peat biogeochemistry, agricultural systems, carbon cycling.

TRAINING, SKILLS AND KNOWLEDGE

- An established record of research and publishing and an active programme of scholarship.
- Research skills in micrometeorological techniques for measuring greenhouse gas emissions, manipulating large datasets using coding platforms (e.g., MatLab, R studio, Python), experience in field work, producing papers and reporting responsibilities.
- Broad and in-depth knowledge of carbon cycling including in natural and/or agricultural ecosystems,
- A proven ability to communicate and work effectively with internal and external stakeholders
- Ability to apply information and communication technologies to achieve desired outcomes and maintain and update those skills.
- An interest in contributing to teaching.

PERSONAL QUALITIES

- Proven ability to maintain a professional approach while under pressure.
- Self-motivation and a pro-active approach.
- Willingness to contribute and operate as part of a team.
- Commitment to a culture of openness, flexibility and cooperation to achieve excellence in academic programmes, research and service.
- A commitment to equal opportunity and to the University's partnership with Māori as intended by the Treaty of Waitangi.

June 2024