

Applying Mātauranga Māori towards the reduction of Greenhouse Gas Emissions in coastal iwi/hapū farms.

The student will build on an existing programme of work to develop a 'whole-of-farm map' of Tahamata Incorporation's coastal farm in Kuku, Horowhenua, as a model farm, targeted towards reducing their future GHG emissions.

As a transdisciplinary team whose research is embedded in whenua, and is Mātauranga Māori-led, culturally-informed, and action-oriented, we are open to framing the research questions in alignment with the candidates' skills and interests. Their research might interrogate the project's methodology, evaluate its impact and effectiveness, use it as a base from which to pursue further related research questions, or consider how its outcomes could be used to maximise uptake and impact.

Research questions might include:

- How incorporating Mātauranga Māori can encourage the implementation of GHG Emission reduction strategies;
- How issues of food and soil sovereignty can contribute to the reduction of GHG Emissions on Tahamata Farm;
- How the research can be implemented in other iwi/hapū farms to increase its impact;
- How iwi/hapū farms/shareholders engage with issues surrounding GHG Emissions.

Tahamata Inc. is a collectively owned farm with consolidated shareholders who are hapū of iwi Ngāti Tukoreke. This map will be used to undertake detailed analysis of sustainable land-use options, targeted towards reducing Tahamata greenhouse gas emissions into the future. The use of Tahamata Inc as a model farm and the methodologies identified in this project can then be extended to neighbouring Māori farms as well as Māori farms systems more broadly.

Preferred candidate skills experience:

- We would prioritise applicants who whakapapa to an iwi within the Horowhenua-Kāpiti-Wellington region or has experience working with indigenous peoples in a culturally-informed, action-oriented setting..
- A Masters Degree in a relevant subject area. As the research team is transdisciplinary, this is not fixed but may include Mātauranga Māori expertise with an environmental focus, GHG Emission Reduction, Geographic Information Science, or Climate and Environmental Science.

- We welcome applications from Creative Practitioners, including but not limited to artists, designers, and landscape architects. If you are a Creative Practitioner, we welcome the submission of a visual portfolio alongside your application.
- A willingness to work with iwi and hapū on action-oriented research projects, and to join a trans-disciplinary team of researchers.

Following the selection process, the successful candidate will be required to complete the standard admissions process for a PhD candidate at Massey University's College of Creative Arts, and meet all formal entry requirements, prior to enrolment. This will include developing and submitting a formal thesis proposal, with the support of Professor Smith.

Host institute(s) and location(s): Toi Rauwhāangi College of Creative Arts, Massey University, Wellington

Project leader(s)/research supervisor:

Professor Huhana Smith (PhD, MNZM, Ngāti Tukorehe, Ngāti Raukawa ki te Tonga) is an experienced supervisor of PhDs, focussing particularly on those who incorporate Mātauranga Māori and transdisciplinary perspectives in their research. She has supervised 8 PhDs to completion (with another currently undertaking emendations) and is currently supervising 5 PhD students.

Depending on the student's research focus, we can draw upon secondary supervisors from across Massey University, for example from the School of People, Environment, and Planning. Professor Smith also has close relationships with many climate and environmental researchers from the Deep South National Science Challenge, who could be drawn upon to provide co-supervision as appropriate.