

Ngā Pae o te Māramatanga

Summer Internship Projects 2022/23

Published for student applications to NPM Summer Internship Projects only.

Student Application Instructions

- 1) Read the NPM Summer Internships Projects 2022/23 and 22-23 NPFNH Internship General Regulations.
- 2) Complete the NPM Summer Internship 2022/23 Student Application form (as a word document).
- 3) Select the Internship projects that most interest you, and record your 1st, 2nd and 3rd project choices in the NPM Summer Internship 2022/23 Student Application.
- 4) Go to the online portal, complete the online form (cut and paste from your application word doc.) Upload the required information (completed application; CV; Academic transcript and letter of reference from an academic staff member).
- 5) Click “Submit”!

For all enquiries, please contact:

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Summer Internship Projects 2022/23

22INT P3 – Developing a Bibliography of Politics Research by Kairangahau Māori.....	3
22INT P4 – Te reo Māori Smart Home Voice Assistant	4
22INT P5 – Tihei Mauriora, Tihei Mana Motuhake: Breathing mauri and mana motuhake into the lives of rangatahi Māori who offend and their whānau with lived experience of trauma.....	5
22INT P6 – Health systems and decolonisation: Preliminary activities to understand health system perspectives.....	6
22INT P7 – Using a Māori lens to analyse media discourse on the introduction of the Pae Ora (Healthy Futures) Act 2022	7
22INT P9 – A kaupapa Māori literature review of cannabis and methamphetamine use experiences of Māori.....	8
22INT P10 – Taranaki Mounga pupurangi survey 2022-2023	9
22INT P11 – Building an Indigenous Science curriculum in tertiary education.....	10
22INT12 – Hangaia ana te whare o Indigenous Science.....	11
22INT P13 – Flourishing Wāhine Māori Identities in Women’s Rugby	12
22INT P14 – Traditional understandings of wāhine Māori, their roles, and maintenance of their safety: Kaumatua and kuia perspectives.....	13
22INT P15 – Maramataka Māori Embedding Indigenous Knowledge(s) in Education.....	14
22INT P16 – He mauri tō te tamaiti: Ākonga Māori motivation in education.....	15
22INT P17 – eHealth initiatives in surgery: Cultural co-design of a general surgical patient-centred App	16
22INT P18 – Exploring the long-term impact of COVID on the social, cultural, mental, and physical wellbeing of individuals, communities, and workplaces.	17
22INT P19 – Kākāpō: Regenerating knowledge of an endangered Taonga species.....	18
22INT P20 – Whānau hauora and housing: a tikanga-based tool for improving Māori housing	19

22INT P3 – Developing a Bibliography of Politics Research by Kairangahau Māori

Name: Dr Lara Greaves

Institution: The University of Auckland

Email: lara.greaves@auckland.ac.nz

Project location: The University of Auckland, intern can be based in Auckland or Wellington, some work can be remote (via zoom).

Project Summary: Many academic disciplines are undergoing processes of embedding tikanga and mātauranga Māori, and Te Tiriti o Waitangi within their teaching, research, learning, and practice. We are a group of researchers in political studies/science and related disciplines, looking to design a process for political studies in NZ to support tauira Māori and staff to thrive, to support tauiriwi colleagues to include and support Māori content, tauira and colleagues, and to be able to better meet the needs of hāpori Māori in politics and policy spaces. Our rōpū is in the process of creating a network, and an initial step is to survey the current state of affairs to build from. What Māori politics research exists? The intern will seek out work by kairangahau Māori in politics and related disciplines. We are looking for an intern completing a major/degree in politics, Māori studies, sociology, history, law, or a related field to help support this work. The intern will help in the creation of a bibliography of Māori politics research, similar to Te Kohikohinga Rangahau from psychology. Alongside searching the literature, they will help with important decisions, such as: creating a decision tree for how we will categorise something as “politics”, developing a list of Māori politics researchers/political scientists, and helping to decide what the subcategories in the bibliography will be. The internship will be supervised by Dr Lara Greaves (UoA) and Dr Annie Te One (secondary supervisor; VuW) with advisory support from a Māori researcher rōpū: Associate Professor Maria Bargh (VuW), Dr Lindsay MacDonald (UC), and Dr Belinda Borrell (Massey), and colleagues in related disciplines (psychology, law, and data science). They will develop wide ranging skills, including working with supervisors/advisors, literature search and categorisation skills, helping to plan a major project piece of work, and gain new knowledge on the topics involved.

Programme of work to be carried out:

- Meet with the supervisory team, the advisors, and with colleagues from other disciplines for lesson-drawing advice (e.g. from psychology, law, data science).
- Attendance at Māori politics network meetings throughout the period.
- Planning out the categories for sub-disciplines and areas within Māori politics.
- Creating a framework/decision tree for what gets included in the bibliography/gets counted as “politics”.
- Searching for academic literature through research databases, various libraries, including theses and dissertations where possible.
- Searching for literature beyond those methods generally taught in undergraduate study, including developing a list of politics researchers.
- Saving and formatting references in bibliography document, using software such as Zotero.

Day to day nature of the work:

- Creation of workplan, outline of bibliography; scoping current literature and databases.
- Regular meetings with supervisors; interdisciplinary colleagues for lesson drawing/advice (psychology, law, data science).
- Presentation of initial ideas and work to the advisors, finalisation of decision tree and rationale.
- Literature searches and compiling the list of kairangahau Māori.
- Developing presentation strategies of project work.

Research skills the student will learn:

- Working as part of a research team, completing deadlines and communicating ideas.
- Reading and understanding academic writing.
- Synthesising abstract/complex ideas into language that is more readily understood by research participants.
- Organising and managing synthesised data using software.
- Developing abilities to think about creative ways to describe research results to a broad audience.

22INT P4 – Te reo Māori Smart Home Voice Assistant

Name: Associate Professor Te Taka Keegan

Institution: The University of Waikato

Email: tetaka.keegan@waikato.ac.nz

Project location: Much of the work can be undertaken online, with meetings happening by Zoom. The Smart home system is located in Ngāhinapōuri (Waikato).

Project Summary: The internship project will focus on the implementation of openHAB plugin for the Smart Home openHAB system that can understand commands in the medium of te reo Māori. A tensorflow lite model will be utilised for the voice recognition, which will be provided, and needs to be integrated into the openHAB plugin. The plugin will be published as open source. The intern will be supervised by Assoc Professor Te Taka Keegan, with assistance from Professor Mark Apperley and senior research programmer Peter Reutemann. The intern can be located anywhere as they can connect to the research online, however a trip to the Waikato will be essential at the start of the project and perhaps at the end of the project. Lab space will be available at Waikato University should the intern require it. The project is more of an applied nature and would suit someone interested in software development and smart home technology. The intern requires knowledge of Java and Maven. An interest in te reo Māori and Artificial Intelligence would be an advantage.

For further information on openHAB:

<https://www.openHAB.org/> <https://www.openHAB.org/docs/concepts/audio.html#audio-voice> .

For information on Maven: <https://maven.apache.org/>

Programme of work to be carried out:

- Develop an openHAB plugin.
- Incorporate a TensorFlow lite model.
- Test with a real-life Smart Home.

Day to day nature of the work:

- Meet the team.
- Familiarise with technology and set up development environment.
- Develop the plugin.
- Integrate the system into a real life Smart Home.

Research skills the student will learn:

- Communications skills.
- Development skills.
- Deeper understanding of Smart Home technologies and Deep Learning.

22INT P5 – Tihei Mauriora, Tihei Mana Motuhake: Breathing mauri and mana motuhake into the lives of rangatahi Māori who offend and their whānau with lived experience of trauma.

Name: Dr Tania Cliffe-Tautari

Institution: The University of Auckland

Email: rania.cliffe@auckland.ac.nz

Project location: Multiple locations allowed. Intern can work from a place of their choosing. Meetings with the intern will take place via Zoom. Due to the multiple locations for Dr Tania Cliffe-Tautari and Dr Luke Fitzmaurice, multiple locations are allowed. The intern will need both Zoom capacity, a camera, and stable WIFI.

Project Summary: The purpose of this internship is to work alongside Dr Tania Cliffe-Tautari (Te Arawa, Ngāi Tahu) and Dr Luke Fitzmaurice (Te Aupōuri) to investigate: How does trauma impact Māori youth who offend, and their whānau, and how can their lived experiences and Māori approaches to Trauma Informed Care shape law and policy related to youth justice to foster whānau flourishing? This internship supports a stand-alone study which is part of the Ngā Pae o te Māramatanga Matakiteanga Award. The project is based on Dr Tania Cliffe-Tautari's recent PhD research findings titled: Kua takoto te manuka: Cultural identity as a resilience factor to reduce Māori youth offending. The perceptions of rangatahi (youth) and whānau from this transdisciplinary project found that rangatahi and whānau experienced trauma which impacted rangatahi (youth) offending. The impacts included trauma resulting from state intervention in their lives. This project internship will suit Māori students with an interest in and experience in the following areas: Māori youth offending, state intervention, justice, indigenous notions of trauma and trauma-informed care from a kaupapa Māori lens. Working alongside Dr Tania Cliffe-Tautari and Co-Investigator Dr Luke Fitzmaurice, the programme of work will involve developing skills in conducting and writing a systematic literature review and policy analysis. Dependent on timeframes, there is the potential of co-writing an article on the findings from the literature review/policy with the supervisors for publication. It is anticipated that the intern will have strong writing skills and knowledge of APA referencing. All other skills such as the use of databases, writing a literature review, and policy analysis can be developed/honed further during the internship.

Programme of work to be carried out:

- A literature search using databases.
- Systematic literature review.
- Developing a policy brief (based primarily on the literature review).

Day to day nature of the work:

With direction from the supervisor:

- Use different databases to learn how to access relevant literature and policy.
- Carry out Official Information Act requests (OIA).
- Carry out a systematic literature review.
- Policy Analysis.
- Draft up literature review and policy analysis for project report.
- Finalise literature review and policy analysis for project report.
- If time allows, the intern will co-write a policy paper/literature article with the main supervisor and co-supervisor of the research project.

Research skills the student will learn:

- Using academic databases to search for literature.
- Conducting systematic literature reviews.
- Using RefWorks to organise literature.
- Note-taking and academic writing.
- Policy Analysis.
- Making OIA requests.

22INT P6 – Health systems and decolonisation: Preliminary activities to understand health system perspectives

Name: Dr Karen Wright

Institution: The University of Auckland

Email: Karen.wright@auckland.ac.nz

Project location: Tāmakimakaurau | Auckland

Project Summary: Access to health care and the quality of care received contributes towards persistent and pervasive Māori: non-Māori health inequities in Aotearoa. Contemporary reviews and reports have identified the failure of the health system in Aotearoa to uphold Indigenous rights and achieve equitable health outcomes for Māori. Significant opportunity for transformation exists with the current health system reform and the Interim Government Policy Statement on Health 2022-2024 commitment to uphold Māori rights and embed authentic Tiriti relationships. Central to this transformation is decolonisation, an event and process requiring the transfer of power and the recovery of a non-colonial identity. Grounded in a Kaupapa Māori theoretical framework, the proposed summer internship is associated with a larger project led by Kaupapa Māori researchers at Te Kupenga Hauora Māori, Waipapa Taumata Rau | University of Auckland (Dr Karen Wright, Professor Papaarangi Reid). This project will provide foundational understanding and insight into decolonisation and the health system in Aotearoa. The aim of this internship is to design a survey to capture health system perspectives of decolonisation. Key activities include stakeholder mapping, analysis and engagement, and the development of a survey to capture health organisation understandings and beliefs about decolonisation, and to scope current activities consistent with decolonisation. Applying students should be based in Auckland, have an academic background in health, population health or Māori health, and ideally have a foundational understanding of the health system in Aotearoa. Research activities will provide the student with the opportunity to work within a Kaupapa Māori research team and support development of project management, stakeholder analysis and engagement, and survey writing skills. The survey produced will be used in future research to provide insight into health system stakeholder perspectives of decolonisation.

Programme of work to be carried out:

- Stakeholder mapping: Develop a comprehensive list of organisations and people relevant to the research project.
- Stakeholder analysis: Identify those organisations and people where mutually beneficial relationships are considered most likely.
- Stakeholder engagement: Support making contact and establishing relationships with the key stakeholders.
- Develop a survey and survey protocol supported by insights from the key stakeholders.

Day to day nature of the work:

- Work independently on relevant activities; Review background literature to have a clear understanding of decolonisation and the current health system structure; Identify potential stakeholders through a structured approach to stakeholder mapping.
- Work collaboratively with supervisor and others in research team; Systematically map organisations and people relevant to the research project; Identify key stakeholders.
- Prepare for weekly meeting to discuss progress, problem solve, and plan next steps.
- Support the organisation and administration of meetings with key stakeholders.
- Review the process of developing survey questions, draft survey questions, focusing on the survey objectives.
- Attend meetings with key stakeholders facilitated by supervisor.
- Develop preliminary survey supported by insights from key stakeholders.
- Present final draft of survey to key stakeholders for review and endorsement; draft a protocol for survey implementation; finalise survey questions; finalise survey protocol.

Research skills the student will learn:

- Project management; Stakeholder analysis and engagement; Survey writing skills and research protocol; writing; written and oral communication skills.

22INT P7 – Using a Māori lens to analyse media discourse on the introduction of the Pae Ora (Healthy Futures) Act 2022

Name: Associate Professor Bridgette Masters-Awatere and Dr Amohia Boulton

Institution: University of Waikato; Whakauae Research Ltd

Email: bridgette.masters-awatere@waikato.ac.nz or amohia@whakauae.co.nz

Project location: Whakauae Research has the equipment and resources to support employees from afar, so the intern could work remotely (i.e., be located anywhere in Aotearoa New Zealand), although priority preference would be for someone to be physically close to either Hamilton or Whanganui in order to maximise access to one of the named supervisors on a regular basis for guidance and support.

Project Summary: On 1 July 2022, the Pae Ora Act 2022 took effect, establishing three new entities which would have overall responsibility for the health system in Aotearoa:

- a new Public Health Agency within the Ministry of Health to lead and strengthen public health;
- Health New Zealand as the national organisation to lead and coordinate delivery of health services across the country; and
- the Māori Health Authority as an independent statutory authority to drive improvement in hauora Māori.

The passing of the Act signalled a significant transformation of the publicly funded health care aimed at creating a more “equitable, accessible, cohesive and people-centred system”; a transformation signalled by the Labour government in April 2021. Understandably media coverage and commentary since the reforms were first flagged until the passing of the Pae Ora Act has been widespread. Employing a te ao Māori lens this small study seeks to understand the tone of the coverage, identifying key messages, promises of delivery (outcomes beneficial to Māori health) and processes (such as using a Treaty lens or equity focus) and budget considerations (allocation of resources). The work will contribute to a larger HRC-funded study hosted by Whakauae Research Services in Whanganui. In undertaking the internship, the student (located in either Whanganui or Hamilton) will have two supervisors. Duties of the student include: collating, organising and cataloguing the data that is provided by an external media agency on the kaupapa under investigation; developing a matrix for theming and organising the themes that emerge from an analysis of that media; entering data into that matrix; discussing the themes arising from the analysis with the senior researchers. It is expected that the student will have academic or discipline knowledge in media studies, political science, history, or another similar field and be competent in managing large amounts of written information. Skills in the management and analysis of qualitative data (manuscripts/documents), critical thinking, kaupapa Māori analysis and writing will be developed through the internship.

Programme of work to be carried out:

- collating, organising and cataloguing the data that is provided by an external media agency on the kaupapa under investigation;
- developing a matrix for theming and organising the themes that emerge from an analysis of that media; and
- entering data into that matrix; discussing the themes arising from the analysis with the senior researchers.

Day to day nature of the work:

- Develop timeline for delivery of key tasks, activities and sources.
- Develop a matrix for capturing their analysis.
- Enter media entries into the analysis matrix.
- Engage discussion to ensure confidence in the themes being captured.
- Develop ideas of how to report the findings, and share with different audiences.
- Identify key findings to highlight in research.

Research skills the student will learn:

- Utilisation of print media as a research technique.
- How to ensure KM methodology approach to a study.
- Developing a robust framework for analysis.
- Reporting findings to different audiences using different methods.
- Implications of research in real world context (eg. iwi, politics, policy).

22INT P9 – A kaupapa Māori literature review of cannabis and methamphetamine use experiences of Māori

Name: Dr Erena Wikaire

Institution: Te Whare Wānanga o Awanuiārangi

Email: Erena.Wikaire@wananga.ac.nz

Project location: Variable - ideally work from home - Possibly Hamilton or Whakatane

Project Summary: This internship will contribute to a larger postdoctoral research fellowship project: a kaupapa Māori analysis of Māori experiences of cannabis and methamphetamine use. An increasing concern within Māori communities; it is important to canvass what is known in terms of cannabis and methamphetamine use within Māori spaces. Despite calls for the treatment of drug use and addiction as a health concern, preliminary investigation has identified that these issues continue to be addressed as criminal justice problems, and this is hindering realistic solutions. Hence, a critical review of literature is essential to identify where the current knowledge base is at, and how it frames Māori within this space. The literature review will provide important information about how the literature frames and talks about this kaupapa, and what implications this has for Māori. Supervising researcher: Dr Erena Wikaire (Ngāpuhi, Ngāti Hine, Te Hikutu, Te Kapotai) is a Kaupapa Māori Postdoctoral Research Fellow at Te Whare Wānanga o Awanuiārangi. Her PhD focused on Rongoā Māori. With previous research roles at Te Hiringa Hauora / Health Promotion Agency and Te Kupenga Hauora Māori, University of Auckland, her research interests include Rongoā Māori, Indigenous healing systems, health inequities, and mental health. Erena's Ngā Pae o Te Māramatanga Fulbright will research Native Hawai'ian healing in Hawai'i in 2023. Research activities: search for and identify relevant literature. Obtain, read, review, and critique literature from a kaupapa Māori perspective. Synthesise and write up findings as a journal article. Preferrable knowledge: A love of writing, thinking, reading, and learning; Kaupapa Māori, or mātauranga Māori; public health; Māori mental health and addiction.

Programme of work to be carried out:

- Meet with supervisor on a regular basis and develop detailed project plan for the internship including project milestones and intern development goals.
- Attend hui with supervisor as appropriate – online or in person.
- Review and discuss literature about good quality kaupapa Māori research and literature reviews.
- Develop a literature search strategy.
- Search for and identify literature pertaining to cannabis and methamphetamine use in Aotearoa - with a focus on Māori.
- Obtain, review and critique literature from a kaupapa Māori perspective.
- Synthesize the results.
- Write the literature review results as a journal article for publication.

Day to day nature of the work:

- Planning and reading/reviewing relevant information for the project.
- Searching for, obtaining and reading literature. Thinking about and reflecting on literature and collating findings.
- Writing up of results, following publication guidelines, responding to feedback.

Research skills the student will learn:

- How to create a literature search strategy and complete a literature search.
- Utilising literature databases, expanding and refining search terms.
- Utilising Endnote software for referencing purposes.
- Organising and managing a small research project including filing, organisation, meeting invitations, professional email communication, professional interpersonal communication.
- Experience working alongside a kaupapa Māori researcher.
- Being able to critique literature from a kaupapa Māori perspective.
- Learning about kaupapa Māori research principles in practice.
- Academic writing for publication- submission, following authorship guidelines.
- Learning about the potential implications of research for Māori health gain.

22INT P10 – Taranaki Mounga pupurangi survey 2022-2023

Name: Dr Simon Hills

Institution: Massey University

Email: s.f.hills@massey.ac.nz

Project location: Taranaki (primarily), Massey University Palmerston North (as needed)

Project Summary: Giant carnivorous land snails (*Powelliphanta*) are an important part of the biodiversity of Taranaki Mounga. However, live animals are rarely encountered as they are nocturnal and prefer wet conditions. As a result, we know very little about these snails. The aim of this internship is to survey selected areas to refine our understanding of where the snails are now living. This information will allow future studies to examine the habitat preferences and size of living populations. Ultimately, such research will provide information for kaitiaki to make robust management decisions about this taonga species. The internship is part of a collaboration between the Taranaki Mounga Project and Massey University. Supervision will be provided by members of both organisations who have expertise in key areas. Dr Simon Hills (Ngati Porou) studies the ecology and evolution of New Zealand snails and will provide mentorship in study design and the analysis of results. Sean Zieltjes, from Taranaki Mounga Project, will work with the intern on the ground, providing guidance around fieldwork on the Mounga. Sera Gibson (Te Atiawa, Ngā Ruahine and Te Arawa), also from TMP, will guide the interaction the internship project and the greater Taranaki Mounga Project. Most of the internship will be carried out on the Mounga, therefore the intern will be located primarily in Taranaki. Some time may be spent at Massey at the beginning and end of the project. The internship will be mainly focused on fieldwork, specifically carrying out field surveys for *Powelliphanta* at selected remote locations on Taranaki Mounga. Some of these surveys will be carried out at night, using spotlights, to increase the probability of encountering live animals. The intern will develop key fieldwork skills and experience in the areas of ecology and environmental management. In addition, analytical and data management skills will be developed.

Programme of work to be carried out:

- Review of current state of knowledge of *Powelliphanta* distribution on Taranaki Mounga.
- Field surveys for live *Powelliphanta* using transect based procedures (where practical, at night using spotlights).
- Field data collection, including location and environmental data as well as data on the animals found.
- Maintenance of collected data for analysis.
- Presentation of the findings of the project in a written report.

Day to day nature of the work:

- Preparations for fieldwork, covering theoretical and practical aspects of the project.
- Some days will be spent outdoors with fieldwork inductions, including health and safety protocols.
- Other days will involve computer based review and fine tuning of sites to be surveyed.
- Field surveys (on the Mounga, sometimes at night) and data management (both in the field and computer based).
- Data analysis and writing the report presenting the findings of the work.

Research skills the student will learn:

During the course of the project the intern will develop research skills related to environmental and wildlife monitoring. These skills are closely linked to the research activities described above, and include the following:

- Project design and refinement, the intern will have the opportunity refine the design of the project based on their experience in the field.
- Mountain fieldwork procedures, including health and safety.
- Snail focused survey techniques.
- Data management an analysis.
- Report writing.

22INT P11 – Building an Indigenous Science curriculum in tertiary education

Name: Associate Professor, Anne-Marie, Jackson

Institution: University of Otago

Email: anne-marie.jackson@otago.ac.nz

Project location: Dunedin, University of Otago, Centre of Indigenous Science, Te Koronga

Project Summary: The Centre of Indigenous Science is a new kaupapa at the University of Otago. It is in its early phases, and we have the opportunity to create new curriculum at the undergraduate and the postgraduate level. Associate Professor Anne-Marie Jackson leads the Centre and she will be your supervisor. You will join our research excellence rōpū of Te Koronga with other kaupapa Māori researchers and students. You would be located in Dunedin, at the University of Otago, and you would have a space in our shared office with our taura. Every week you would come along to Te Koronga, Monday 9-11am, and we would tautoko you with your mahi for the week. You will also be matched up with one of the Te Koronga tuakana who will also guide you through your kaupapa. We would work together on the research activities to match your interests. Depending on your study level or prior experiences, we will work on an annotated bibliography or a literature review exploring kaupapa Māori, Māori, and Indigenous curriculum examples in Aotearoa and across the world broadly on Indigenous Science(s). Now with the changes in Covid in Aotearoa, you will be welcome to attend hui and wānanga across Te Koronga in the Summer period. Any academic discipline is welcome. If you have a keenness and openness for learning, then we will guide you through the specific skills and research areas. The skills that will be developed include: kaupapa Māori research praxis; annotated bibliography/literature review and; kaupapa setting.

Programme of work to be carried out:

Depending on the level of the taura you will do one of the following:

- For undergraduate or new to research students, you will undertake an annotated bibliography.
- For students with some research experience, you would complete the following: To research, write and present a study of your own design and interest in relation to Indigenous science in tertiary education.
- You are expected to present your research in the Te Koronga: Indigenous Science Research Theme seminar series in 2023.
- Expectation: You are to work independently over 10 weeks of summer and be self-motivated. If you are in Dunedin you must attend Te Koronga every Monday 9-11am. If you will be off campus, you must Zoom in every week to Te Koronga every Monday 9-11am. You will also be expected to participate in all Te Koronga activities if you are in Dunedin.

Day to day nature of the work:

Getting your bearings: Every week you will start the week with Te Koronga Monday 9-11 and you will be set up for the week. You will be getting familiar with the kaupapa of Te Koronga, with the other taura and interns. You will be beginning to learn what an internship is all about and what being in a kaupapa Māori research group looks like. You will begin to brainstorm and then familiarise yourself with the literature for your topic.

Becoming comfortable: Every week you will still be starting the week with Te Koronga Monday 9-11. You will be off looking at databases, literature, and talking to others. You will start to submit writing for drafts of your mahi.

Mahia te mahi: You will still be starting the week off with Te Koronga Monday 9-11. Now you will be into the swing of things and looking at summarising your main areas for the research report and handing in drafts. You will be preparing for your presentation. You will hopefully be comfortable in our environment, handing in your mahi, and being excited for wherever you may head next.

Research skills the student will learn:

- Kaupapa Māori research praxis; annotated bibliography/literature review and; kaupapa setting.
- Basic skills of literature and database searching, reviewing information, and critically evaluating current knowledge, are essential in the pursuit of research excellence. The focus of your research internships is to build an annotated bibliography, and a short, concise report, related to your area of interest.

22INT12 – Hangaia ana te whare o Indigenous Science

Name: Associate Professor, Anne-Marie, Jackson

Institution: University of Otago

Email: anne-marie.jackson@otago.ac.nz

Project location: Dunedin, University of Otago, Centre of Indigenous Science, Te Koronga

Project Summary: The Centre of Indigenous Science is a new kaupapa at the University of Otago. It is in its early phases. We are investigating the potential of a whare metaphor for the Centre, and eventual department. As such, this internship will focus on examining archival and historical material across Aotearoa and the Pacific in relation specifically to whare. Your work will contribute to how we metaphorically embed notions of whare into our new Centre. Associate Professor Anne-Marie Jackson leads the Centre and she will be your supervisor. You will join our research excellence rōpū of Te Koronga with other kaupapa Māori researchers and students. You would be located in Dunedin, at the University of Otago, and you would have a space in our shared office with our taura. Every week you would come along to Te Koronga, Monday 9-11am, and we would tautoko you with your mahi for the week. You will also be matched up with one of the Te Koronga tuakana who will also guide you through your kaupapa. We would work together on the research activities to match your interests. Depending on your study level or prior experiences, we will work on an annotated bibliography or a literature review exploring kaupapa Māori, Māori, and Indigenous curriculum examples in Aotearoa and across the world broadly on Indigenous Science(s). Now with the changes in Covid in Aotearoa, you will be welcome to attend hui and wānanga across Te Koronga in the Summer period. Any academic discipline is welcome. If you have a keenness and openness for learning, then we will guide you through the specific skills and research areas. The skills that will be developed include: kaupapa Māori research praxis; annotated bibliography/literature review and; kaupapa setting.

Programme of work to be carried out:

Depending on the level of the taura you will do one of the following:

- For undergraduate or new to research students, you will undertake an annotated bibliography.
- For students with some research experience, you would complete the following: To research, write and present a study of your own design and interest in relation to whare in Aotearoa and the Pacific.
- You are expected to present your research in the Te Koronga: Indigenous Science Research Theme seminar series in 2023.
- Expectation: You are to work independently over 10 weeks of summer and be self-motivated. If you are in Dunedin you must attend Te Koronga every Monday 9-11am. If you will be off campus, you must Zoom in every week to Te Koronga every Monday 9-11am. You will also be expected to participate in all Te Koronga activities if you are in Dunedin.

Day to day nature of the work:

Getting your bearings: Every week you will start the week with Te Koronga Monday 9-11 and you will be set up for the week. You will be getting familiar with the kaupapa of Te Koronga, with the other taura and interns. You will be beginning to learn what an internship is all about and what being in a kaupapa Māori research group looks like. You will begin to brainstorm and then familiarise yourself with the literature for your topic.

Becoming comfortable: Every week you will still be starting the week with Te Koronga Monday 9-11. You will be off looking at databases, literature, and talking to others. You will start to submit writing for drafts of your mahi.

Mahia te mahi: You will still be starting the week off with Te Koronga Monday 9-11. Now you will be into the swing of things and looking at summarising your main areas for the research report and handing in drafts. You will be preparing for your presentation. You will hopefully be comfortable in our environment, handing in your mahi, and being excited for wherever you may head next.

Research skills the student will learn:

- Kaupapa Māori research praxis; annotated bibliography/literature review and; kaupapa setting.
- Basic skills of literature and database searching, reviewing information, and critically evaluating current knowledge, are essential in the pursuit of research excellence. The focus of your research internships is to build an annotated bibliography, and a short, concise report, related to your area of interest.

22INT P13 – Flourishing Wāhine Māori Identities in Women’s Rugby

Name: Dr Jeremy Hapeta

Institution: University of Otago

Email: jeremy.hapeta@otago.ac.nz

Project location: Dunedin, University of Otago, Centre of Indigenous Science, Te Koronga

Project Summary: This research will explore flourishing Māori identities in women’s rugby. Dr Jeremy Hapeta will be your supervisor with the support of Associate Professor Anne-Marie Jackson. You will join our research excellence rōpū of Te Koronga with other kaupapa Māori researchers and students within the Centre of Indigenous Science. You would be located in Dunedin, at the University of Otago, and you would have a space in our shared office with our taura. Every week you would come along to Te Koronga, Monday 9-11am, and we would tautoko you with your mahi for the week. You will also be matched up with one of the Te Koronga tuakana who will also guide you through your kaupapa. We would work together on the research activities to match your interests. Depending on your study level or prior experiences, we will work on an annotated bibliography or a literature review in relation to flourishing Māori identities in women’s rugby. Now with the changes in Covid in Aotearoa, you will be welcome to attend hui and wānanga across Te Koronga in the Summer period. Any academic discipline is welcome with a focus on hauora. Ideally you have been a former player or volunteer in women’s rugby. If you have a keenness and openness for learning, then we will guide you through the specific skills and research areas. The skills that will be developed include: kaupapa Māori research praxis; annotated bibliography/literature review and; kaupapa setting.

Programme of work to be carried out:

Depending on the level of the taura you will do one of the following:

- For undergraduate or new to research students, you will undertake an annotated bibliography.
- For students with some research experience, you would complete the following: To research, write and present a study of your own design and interest in relation to flourishing Māori identities in women’s rugby.
- You are expected to present your research in the Te Koronga: Indigenous Science Research Theme seminar series in 2023.
- Expectation: You are to work independently over 10 weeks of summer and be self-motivated. If you are in Dunedin you must attend Te Koronga every Monday 9-11am. If you will be off campus, you must Zoom in every week to Te Koronga every Monday 9-11am. You will also be expected to participate in all Te Koronga activities if you are in Dunedin.

Day to day nature of the work:

Getting your bearings: Every week you will be start the week with Te Koronga Monday 9-11 and you will be set up for the week. You will be getting familiar with the kaupapa of Te Koronga, with the other taura and interns. You will be beginning to learn what an internship is all about and what being in a kaupapa Māori research group looks like. You will begin to brainstorm and then familiarise yourself with the literature for your topic.

Becoming comfortable: Every week you will still be starting the week with Te Koronga Monday 9-11. You will be off looking at databases, literature, and talking to others. You will start to submit writing for drafts of your mahi.

Mahia te mahi: You will still be starting the week off with Te Koronga Monday 9-11. Now you will be into the swing of things and looking at summarising your main areas for the research report and handing in drafts. You will be preparing for your presentation. You will hopefully be comfortable in our environment, handing in your mahi, and being excited for wherever you may head next.

Research skills the student will learn:

- Kaupapa Māori research praxis; annotated bibliography/literature review and; kaupapa setting.
- Basic skills of literature and database searching, reviewing information, and critically evaluating current knowledge, are essential in the pursuit of research excellence. The focus of your research internships is to build an annotated bibliography, and a short, concise report, related to your area of interest.

22INT P14 – Traditional understandings of wāhine Māori, their roles, and maintenance of their safety: Kaumatua and kuia perspectives

Name: Professor Denise Wilson and Dr Alayne Mikahere-Hall

Institution: Auckland University of Technology

Email: denise.wilson@aut.ac.nz

Project location: Auckland University of Technology – South Campus, MB Building

Project Summary: The E Tū Wāhine, E Tū Whānau research findings challenged the common perceptions and negative stereotypes of Māori women as being simultaneously 'victims' and perpetrators of domestic violence. Instead, we found Māori women actively navigate, react to and resist violence in unsafe partner relationships to keep safe and protect their children. We aimed to explore new and culturally appropriate ways of thinking about how Māori women are active in protecting themselves and their children drawing on the mātauranga and wisdom of kaumatua and kuia. This internship will focus on analysing already collected data from the E Tū Wāhine, E Tū Whānau research funded by the Marsden fund to explore culturally appropriate ways of supporting wāhine and whānau wellbeing with experienced researchers. The intern would work with Professor Denise Wilson and Dr Alayne Mikahere-Hall and be located at the South Campus of AUT in Manukau between December 2022 and February 2023. Both Denise and Alayne are established researchers working with wāhine, rangatahi, and whānau living with violence. The intern will have the opportunity to apply kaupapa Māori methodology and Mana Wāhine theory (that draws on decolonisation and intersectionality), through the analysis of data already collected from kaumatua and kuia using a mahi-a-roopū analytic process. The intern would have the opportunity to also work collaboratively on analysing the data and then writing a manuscript for submission to a peer reviewed journal, gaining valuable analytic skills and experience in preparing and writing a manuscript. The intern would also participate as part of the Taupua Waiora research and teaching team during their internship. Ideally, students interested in this internship would have (a) an interest in supporting whānau wellbeing, and (b) had some experience and skills that would assist in the analysis of data, undertaking a literature review, and proficiency in academic writing.

Programme of work to be carried out:

- Apply kaupapa Māori methodology and Mana Wāhine theory (that draws on decolonisation and intersectionality) to analyse interviews with kaumatua and kuia.
- Engage in a mahi-a-roopū analysis process with Professor Denise Wilson and Dr Alayne Mikahere-Hall.
- Undertake a literature review for preparation of a manuscript.
- Selecting a peer-reviewed journal and preparation for writing a manuscript.
- Engage in the collaborative writing of a manuscript and undertake the submission process of a manuscript for peer-review.

Day to day nature of the work:

- A day would involve becoming familiar with the methodology and theory through kōrero, reading relevant articles, and discussion of how these will be used to inform the analysis and interpretation of the data.
- Engage in the library sessions offered for undertaking a structured literature review – this would include identifying search terms and databases to undertake the literature review.
- Participate in the full day with supervisors for mahi-a-roopū analytic process of the data.
- Participate in the collaborative writing – this would be half day/full-day sessions. It would also involve searching for relevant literature to situate findings in what currently exists in the literature and identify the contributions the manuscript will make.

Research skills the student will learn:

- Using Kaupapa Māori methodology and Mana Wāhine Theory.
- Managing interview data and Thematic data analysis.
- Writing up and presenting themes and using data to illustrate its key characteristics.
- Planning and conducting a literature review in preparation for writing a manuscript.
- Planning, writing and submitting a manuscript for peer-review.
- Working as part of a research team.

22INT P15 – Maramataka Māori Embedding Indigenous Knowledge(s) in Education

Name: Dr Matiu Ratima and Kari Moana Te Rongopatahi.

Institution: Te Whare Wānanga o Waitaha

Email: matiu.ratima@canterbury.ac.nz

Project location: Some of the mahi can be done remotely but the intern would need to be in Ōtautahi for the symposium 12-13 December.

Project Summary: Education is deeply implicated in the politics of power. What counts as knowledge and who is empowered to teach it demonstrates how dominance and subordination are reinforced and reproduced in our education systems. Although the history of education is not a universal experience, there are common themes in the shared experiences of the indigenous peoples of the Pacific. In Aotearoa and Hawai'i, our education systems have been built on a set of western values and ideals, the designation of western knowledge as "official knowledge" and the suppression of Indigenous languages and knowledge systems. Over time, our respective education systems have attempted to incorporate elements of Indigenous knowledge into mainstream education, but never at the expense of sacrificing any of the major components of western consciousness and definitions of reality. A key challenge for educators is to actively critique the limitations of mainstream education, the values and ideals that it is built upon, and the power imbalances inherent within its structure that continues to impede the normalization and authentic integration of Indigenous knowledge systems within. In Aotearoa, the New Zealand Teachers Council now requires all pre-service teachers to be educated in culturally responsive pedagogies. Although this term has gained momentum, it is often reduced to superficial interpretations of cultural practices. Teachers may recognize the importance of student culture, yet, they often fall short of consciously anchoring culturally responsive pedagogy to student learning. Educators must actively engage in the work required to support the decolonization of education. This is fundamentally about honouring Indigenous knowledge systems, and allowing space for new perspectives, paradigms and worldviews to be developed based on an intimate connection with and knowledge of the taiao. The successful candidate for this internship will help organise a symposium which brings indigenous knowledge holders (tohunga) from across the Pacific and Māori teacher educators together to establish and maintain the connection to taiao within the curriculum. An undergraduate degree in Arts is preferred but any undergraduate degree level qualification is sufficient. The ability to write analytically and to organise and analyse large amounts of information would be an advantage. Website construction and ability to use social media would also be an advantage.

Programme of work to be carried out:

- Produce a literature review.
- Assisting in the planning and coordination of the symposium.
- Assisting with data collection at the symposium.
- Data processing (e.g. transcriptions etc).
- Data analysis post-symposium.
- Production and editing of conference proceedings.

Day to day nature of the work:

- Literature searches and annotated bibliography and review writing Engage in the library sessions offered for undertaking a structured literature review – this would include identifying search terms and databases to undertake the literature review.
- Data gathering and analysis.
- Report writing and/or conference proceedings.

Research skills the student will learn:

- Literature review writing.
- Interviewing.
- Transcription and Data Analysis.
- Report writing/ Conference proceedings.

22INT P16 – He mauri tō te tamaiti: Ākonga Māori motivation in education

Name: Professor Melinda Webber

Institution: The University of Auckland

Email: m.webber@auckland.ac.nz

Project location: The supervisor for this project is located at the University of Auckland. However, the project can be undertaken anywhere in Aotearoa. The data has already been collected for this project and the intern can work alongside the supervisor to analyse and write about the data - face-to-face or via zoom.

Project Summary: This strengths-based project asks: what motivates ākonga Māori to engage, persist, and thrive at school, even when faced with academic and social challenges? The data has already been collected from primary and secondary school students throughout Aotearoa. The successful NPM intern will work alongside the researcher to code and analyse the survey data related to Māori student motivation. The researcher and intern will submit at least one paper from these analyses for co-publication in 2023. Professor Melinda Webber has whakapapa that connects her to Ngāti Kahu, Ngāti Hine, Ngāto Hau, Ngāpuhi, and Ngāti Whakaeue. She is a social psychologist working in the field of education. Melinda teaches and researches at the Faculty of Education and Social Work at Waipapa Taumata Rau/The University of Auckland. She leads a number of research projects focused on better understanding the effects of Māori student motivation and academic engagement, culturally sustaining teaching, localised curricula, and enduring school-family-community partnerships for learning. This work is open to any Māori tertiary student with an interest in the education and wellbeing of Māori students. The large qualitative national data set (N=5,000+ Māori primary students, N=1650 Māori secondary students) means that the intern can choose to work with the de-identified data from either: 1. the largest representative iwi in the data set, or 2. An iwi relevant to their own whakapapa. In this project the intern will learn to write a literature review, analyse data, and write a journal article for publication. The project requires the intern to have an interest in Māori student motivation and engagement in education, and to be able to work independently towards weekly milestones. They will also need to find time to zoom with the supervisor once a week during the internship.

Programme of work to be carried out:

- a literature review.
- data coding and analysis.
- thematic code development.
- co-writing and publication with the supervisor.

Day to day nature of the work:

- Reading and annotating literature associated with the study topic. Writing up as a literature review with support from the supervisor.
- Analysing data to establish key influences on Māori student motivation at school. Linking these themes to the previously written literature review.
- Co-writing an article for publication with the supervisor.

Research skills the student will learn:

- How to develop an analysis framework from a theoretical model.
- How to code qualitative data against the framework.
- How to analyse the data – establishing themes/divergence/alignment with the existing extant research.
- How to write an academic article (which will be co-published with the supervisor).

22INT P17 – eHealth initiatives in surgery: Cultural co-design of a general surgical patient-centred App

Name: Associate Professor Karyn Paringatai

Institution: The University of Otago

Email: karyn.paringatai@otago.ac.nz

Project location: The University of Otago, Dunedin.

Project Summary: The patient journey from diagnosis to discharge can be a particularly stressful time. This may include receiving a difficult diagnosis, uncertainty about the future, unfamiliarity with systems of care, and anxiety associated with major surgical interventions. The Department of Surgical Sciences at the Otago Medical School in collaboration with SHI Global (a New Zealand based health software company) have been involved in developing surgical carepacs (pdfs containing single topic information on each part of the surgical experience) on a software platform called Go Well Health for colo-rectal cancer patients. These provide the patient with individualised care plans (made up of multiple carepacs) and allows them to correspond with healthcare providers. The app has the potential to address inequity in health care. To achieve this the carepacs need to be co-designed to incorporate Māori cultural values and understandings. This internship will adapt pre-existing carepacs and/or create new ones that align with Māori world views and understandings of health/wellbeing. It will also identify areas where the design aesthetics can be improved and where content should be developed to be more engaging with Māori patients. The intern will be supervised by Associate Professor Karyn Paringatai (Te Tumu) and supported by Professor Jo Baxter (Ngāi Tahu, Dean, Otago Medical School), Dr Moea Nimmo (Ngā Puhī, Surgical Registrar, Southland Hospital), Dr John Woodfield and Dr Kari Clifford (both from the Department of Surgical Sciences, Dunedin Hospital). An advisory board consisting of Māori health and wellbeing experts and mana whenua representatives from Otago and Southland will also be available. It is essential that the student have a sound understanding of te reo Māori and tikanga Māori, and knowledge of the healthcare system would be an advantage. They would also need to be located in Otago or Southland as the intention is to provide localised information from the Southern region. The intern will develop skills in research, analysis and design, expand their knowledge of digital health and health communication, and improve their written communication skills.

Programme of work to be carried out:

- conduct a review of pre- and post-operative practices at Dunedin and Southland Hospitals to understand how they address Māori cultural values and understandings.
- adapt already developed carepacs to better incorporate Māori cultural values and understandings.
- develop additional carepacs (where needed) to provide a more holistic Māori approach to healthcare based on the review.
- identify areas that need to be developed to better engage Māori patients (design aesthetics, audio/visual content, localised iwi content and narratives etc).
- write up project report.

Day to day nature of the work:

- Conduct a review of pre- and post-operative practices at Dunedin and Southland Hospitals to better understand how they address Māori cultural values and understandings.
- Meet with the advisory board and full research team.
- Review current carepacs to identify areas that could better support Māori health needs.
- Co-design of carepacs based on the review, in collaboration with Research team to check that is cognisant of a Māori world view and for medical accuracy of the information.
- Identify areas for improvement that are more cognisant of a Māori world view and have the potential to enhance Māori engagement with the content.
- A summary of the key findings will be presented in a report.

Research skills the student will learn:

- review and analyse policies and processes; write for cultural communication; write for medical communication; write a report.

22INT P18 – Exploring the long-term impact of COVID on the social, cultural, mental, and physical wellbeing of individuals, communities, and workplaces.

Name: Dr Kiri Edge and Professor Linda Waimarie Nikora

Institution: The University of Auckland

Email: kiri.edge@auckland.ac.nz

Project location: Interns can be located anywhere in Aotearoa but should have their own computer with stable internet connection for zoom hui, wananga and access to a research library, for literature searches.

Project Summary: The global COVID-19 pandemic has had wide-ranging impacts for Aotearoa New Zealand, alongside communities around the world. While some of the impacts from the COVID-19 pandemic has been immediate and evident, less is known about the long-term impacts on social, cultural, mental, and physical wellbeing-for people, communities, and workplaces. As part of a collaboration between Ngā Pae o te Māramatanga (NPM) and the Methodist Mission Northern, the intern will carry out a literature review of research related to this topic through online searches and other relevant sources of information. We expect that the review of relevant literature will enable the development of literature review that will highlight a number of key themes. The intern will review and compile a written literature review report, that will inform future research endeavours for the Methodist Mission Northern. The NPM supervisory team will guide the intern in their search, and support the literature review output for this project. The project has a experienced supervisory team, including Pou Matarua Co-Director Professor Linda Waimarie Nikora and Pouhere Rangahau Dr Kiri Edge. The intern will learn how to a member of a research team, will participate in NPM secretariat and network activities, become experienced in literature review techniques and authorship of literature review reports. The outputs expected from the project are 1) A written literature review report and 2) An oral presentation. Students from any discipline are suitable for this internship, but they must have some understanding or interest in exploring the social, cultural, mental, and physical wellbeing of people, communities, and workplaces. Some previous experience with literature reviews and reports would be particularly advantageous.

Programme of work to be carried out:

1. Attend weekly supervision meetings.
2. Participate in NPM secretariat activities (including IIRC2022 if able) and assist with NPM research network activities.
3. Carry out literature searches via libraries, and relevant online databases for literature relating to wide ranging and long-term impacts of COVID-19.
4. Keep a shared GOOGLE website of resources found, links to sources, reference list and running analysis centred on the question – What is the long-term impact of COVID on the social and mental wellbeing (and in some cases physical wellbeing) of individuals, communities, and workplaces.
5. Under guidance from the supervision team, draft a literature review report on relevant literature found.
6. Participate in the NPM online support programme for interns.
7. Complete all reporting requirements for the internship.

Day to day nature of the work:

- Attend weekly supervision and 3 weekly NPM staff check ins.
- Develop a work plan and timeline.
- Orientation to literature searches, reviews and shared GOOGLE sites.
- Attendance at and support of NPM online intern support programme and IIRC2022, if able.
- Draft and complete literature review report .
- Prepare and make an oral presentation to NPM supervisors and representatives from Methodist Mission Northern.
- Complete all NPM internship reporting requirements.

Research skills the student will learn:

- Literature search, review and analysis.
- Research planning, time management,work ethic.
- Engagement with supervisors.
- Research report writing.
- Teamwork, working collaboratively with community organisations.

22INT P19 – Kākāpō: Regenerating knowledge of an endangered Taonga species

Name: Professor Linda Waimarie Nikora

Institution: The University of Auckland

Email: l.nikora@auckland.ac.nz

Project location: Interns can be located anywhere in Aotearoa but should have physical access to a research library, have their own computer with stable internet connection for archive and literature search and supervision meetings.

Project Summary: In 2021, Ngā Pae o te Māramatanga (NPM) contributed to the Kākāpō Recovery programme by adopting Kumi. Kumi is a kākāpō - nocturnal, ground-dwelling, soft feathered, friendly, long-lived but critically endangered. There are only 252 kākāpō that survive today. NPM seeks to extend our support and knowledge of what is known of kākāpō. We intend to do this through an examination of archives, waiata, mōteatea, pūrākau and pakiwaitara, our intention being to bring this knowledge into the public sphere and to heighten awareness of this taonga species. The intern will carry out archival search via libraries, museums, and art galleries and examine journals, Māori newspapers, waiata, mōteatea, pūrākau and pakiwaitara for references to kākāpō. We expect that references found will highlight the significance of this taonga to Māori people and society. The intern will analyse and curate these references for publication and public dissemination as part of a larger public education strategy. The NPM supervisory team will guide the intern in their search and co-author arising outputs from the project. This project has a senior and experienced supervisory team and falls under the directorship of Pou Matarua Co-Director Professor Linda Waimarie Nikora. The intern will learn how to be a member of a research team, will participate in NPM secretariat and network activities, become experienced in archival research techniques and co-authorship, and develop strategies for influencing audiences through planned dissemination. Outputs expected from the project are: 1) co-authored scholarly publication; 2) An oral presentation; and 3). Curated and creative impact assets (eg., for social media and websites). Post graduate students from any discipline are suitable for this internship but they must have a working knowledge of te reo Māori, an avid curiosity and eagerness to explore archives and the Māori canon of knowledge and be creatively persuasive.

Learn more about Kākāpō here <https://www.iirc.ac.nz/kumi/>

Learn more about Professor Linda Waimarie Nikora <https://profiles.auckland.ac.nz/l-nikora/about>

Programme of work to be carried out:

- Participate in NPM secretariat activities (including IIRC2022 if able) and assist with NPM research network activities.
- Carry out archival search via libraries, museums, and art galleries and examine journals, Māori newspapers, waiata, mōteatea, pūrākau and pakiwaitara for references to kākāpō.
- Keep a shared GOOGLE website of resources found, links to sources, reference list and running analysis centred on the question – what does this reference tell us about Kākāpō?
- Under guidance from the supervision team, draft a 5000 word essay based on references found.
- Work with the supervision team to co-author a draft manuscript for submission.
- Work with the supervision team to consider and develop influential forms of dissemination for the project.
- Prepare and make an oral presentation.
- Participate in the NPM online support programme for interns, and meet all internship reporting requirements.

Day to day nature of the work:

- Attend weekly supervision and 3 weekly NPM staff check ins.
- Develop a work plan and timeline, orientation to archives and shared GOOGLE sites.
- Attendance at and support of IIRC2022, and NPM online intern support programme.
- Archival searches, and carry out programme of work.

Research skills the student will learn:

- Archival search; Research planning; Engagement with supervisors; Manuscript writing; Website design; Teamwork; Time management; Work ethic; Archival analysis; Developing creative and influential research impact strategies.

22INT P20 – Whānau hauora and housing: a tikanga-based tool for improving Māori housing

Name: Professor Deidre Brown (Ngāpuhi, Ngāti Kahu)

Institution: The University of Auckland

Email: ds.brown@auckland.ac.nz

Project location: University of Auckland Waipapa Taumata Rau- open to remote working options from another location in Aotearoa so long as the successful candidate has reliable and fast internet connectivity.

Project Summary: What kinds of housing enable whānau Māori to thrive? While there is significant hapū, iwi, and local and central government investment in housing and papakāinga, and innovative Māori housing design, there is no post-occupancy housing evaluation tool (i.e., a liveability analysis method after a house is occupied) available that measures how effective this housing is for whānau Māori. Therefore, housing designers, providers and whānau do not know which houses are the best for whānau hauora. This is important as some whānau experience the high cost of housing, poor rental accommodation, densification of cities, spatial needs for tikanga, limited housing location choices, and the need and desire to live as an extended family. Current post-occupancy evaluation tools are limited to physical and Eurocentric wellbeing measures that do not consider hauora and tikanga Māori. This internship is for the initial research to support a tikanga-based housing evaluation method. The intern will be working under the supervision of Professor Brown as part of the MĀPIHI Research Centre. Candidates should have a strong interest in housing, a background in a built-world discipline (architecture, planning, landscape, engineering, etc) or health studies or a related discipline, and experience in completing literature reviews. At the conclusion of the internship, the intern will have a strong knowledge of wellbeing/hauora measures and precedent tools as they apply to everyday and long-term life. It is anticipated that they will have a deep understanding of 'housing', one likely to include taiao, sustainability, tikanga, tino rangatiratanga, whānaungatanga and tūrangawaewae. The final report of the internship will be used for future research to create a new tikanga-based post-occupancy tool, verified through iterative testing on Māori house. The successful intern may wish to consider this further development of the research as a MĀPIHI masters or PhD student. The purpose of the final tool, arising from these postgraduate opportunities, will be to identify and promote to communities and housing providers positive and transformational housing interventions and practices that enhance whānau hauora and futures.

Programme of work to be carried out:

- Literature review of existing housing post-occupancy evaluation tools here and overseas. Because there are no tikanga-based tools related to housing, it is envisaged that the review will also look to Indigenous studies, population health and geography literatures.
- Precedent study of the application of these tools and their effectiveness in identifying positive innovations and interventions that create transformative change, especially for Indigenous communities.
- The review and study will comment on the relevance of these tools to MĀPIHI's mission.

Day to day nature of the work:

- Meetings with supervisor.
- Establish library access and meet with Māori librarian for session on database searching and organising information.
- Literature review, identifying precedents (i.e. post-occupancy and similar tools in use) and investigating their efficacy through published reports and contact with industry professionals.
- Develop and complete final report, with feedback from supervisor on drafts.
- Completion of literature review and precedent studies report.

Research skills the student will learn:

- Advanced literature review skills; Advanced precedent study skills; Advanced knowledge of post-occupancy evaluation tools in global and Indigenous contexts.

Please note that these skills are highly valued in the building design and construction industry and also in planning. They will be very useful for anyone wanting to work in hapū, iwi and community housing provision.