



agenda

Te Komiti Rangahau o Unitec | Unitec Research Committee

Date:	2019-09-19
Scheduled Start:	1300h
Scheduled End:	1500h
Location:	Building 115-1030

SECTION 1 NGĀ KUPU ARATAKI | PRELIMINARIES

1. Opening Karakia
2. Welcome from the Chair
3. Membership (2019)
4. Terms of Reference (2019)

SECTION 2 STANDING ITEMS

1. Ngā Whakapāha | Attendance, Apologies & Quorate Status
2. Mahia Atu | Matters Arising
3. Pitopito Kōrero o Ngā Hui | Minutes of the Previous Meeting

SECTION 3 ITEMS TO APPROVE

1. Application for Research Centre; Ngā Wai a te Tūi
2. Draft Terms of Reference for proposed PhD support toward PBRF

SECTION 4 WHAKAWHITI KŌRERO | ITEMS TO DISCUSS

1. Clarification of research grant overheads
2. School Research Plans

SECTION 5 ĒTAHI KAUPAPA ANŌ | OTHER BUSINESS

Closing Karakia

Item 1.1 Opening Karakia

KARAKIA TIMATANGA	BEGINNING PRAYER
<i>Manawa mai te mauri nuku</i>	<i>Embrace the power of the earth</i>
<i>Manawa mai te mauri rangi</i>	<i>Embrace the power of the sky</i>
<i>Ko te mauri kai au</i>	<i>The power I have</i>
<i>He mauri tipua</i>	<i>Is mystical</i>
<i>Ka pakaru mai te pō</i>	<i>And shatters all darkness</i>
<i>Tau mai te mauri</i>	<i>Cometh the light</i>
<i>Haumi ē, Hui ē, Tāiki ē!</i>	<i>Join it, gather it, it is done!</i>

Item 1.2 Welcome from the Chair**Item 1.3 Membership of Te Komiti Rangahau o Unitec**

Associate Professor Marcus Williams	Chair - Director, Research and Enterprise
Professor Christian Probst	Director, High Technology Transdisciplinary Research
Heather Stonyer	Director Industry Partnerships or nominee
Dr Falaniko Tominiko	Director, Pacific Success or nominee
TBA	Director, Māori Success or nominee
Dr Helen Gremillion (Associate Professor)	Healthcare and Social Practice
Yusef Patel (New and Emerging)	Architecture
Roger Birchmore (Early Career)	Building Construction
Dr Lian Wu (Associate Professor)	Community Studies
Dr Iman Ardekani (Associate Professor)	Computing and IT
Dr Leon Tan (Associate Professor)	Creative Industries
Dr Jonathan Leaver (Associate Professor)	Engineering and Applied Technology
Kristina Naden (Early Career)	Environmental & Animal Science
Gerry Ryan (New and Emerging)	Trades and Services
Dr Maryam Mirzaei (Early Career)	Business Studies
TBA	Bridgepoint
Susan Eady	Library Knowledge Specialist
Myles Durrant	One member nominated by the Student Council
Arun Deo	Research Advisor
TBA	ePress Editor (non-voting members)
In attendance: Asma Munir	URC Secretary

Item 1.4 **Te Komiti Rangahau o Unitec Terms of Reference**

The powers and functions of Te Komiti Rangahau o Unitec (URC) shall be to:

- a. Foster the conduct of research, and support the achievement of Unitec’s strategic research, enterprise and innovation priorities;
 - b. Propose and advise on strategic directions and priorities for research, enterprise and innovation;
 - c. Provide expert advice on institutional policy;
 - d. Develop protocols and guidelines and make recommendations in relation to the conduct of research, enterprise and innovation;
 - e. Oversee the Grants Advisory Committee and the reporting of funded projects;
 - f. Encourage and enhance the development of the research, enterprise and innovation culture along with student and staff research capability;
 - g. Oversee the monitoring of research outputs and research reporting; and,
 - h. Foster transdisciplinary, collaborative and externally engaged research, enterprise and innovation.
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SECTION 2 **STANDING ITEMS**

Section 2.1 **Ngā Whakapāha | Attendance, Apologies & Quorate Status**

RECOMMENDATION

That the Committee accept the Apologies of today’s meeting.

Section 2.2 **Pitopito Kōrero o Ngā Hui | Minutes of the Previous Meeting**

refer to [pg1](#)

RECOMMENDATION

That the Committee approves the Minutes of the meeting of 2019-08-22.

Section 2.3 **Mahia Atu | Matters Arising**

refer to [pg5](#)

SECTION 3 **ITEMS TO APPROVE**

Section 3.1 **Application for Research Centre; Ngā Wai a te Tūi**

refer to attached papers;

- Research Centre memo [pg6](#)
- Research Centre application [pg7](#)
- Staff CVs [pg27](#)

Section 3.2 **Draft Terms of Reference for proposed PhD support toward PBRF**

refer to attached;

- Guidelines [pg50](#)
- Template [pg52](#)

SECTION 4 **WHAKAWHITI KŌRERO | ITEMS TO DISCUSS**

Section 4.1 **Clarification of research grant overheads**

refer to attached;

- Overheads Memo [pg54](#)
- Overheads PowerPoint [pg55](#)
- Management of External Research Funding Procedure [pg61](#)

Section 4.2 **School Research Plans**

refer to attached;

- School Plans Memo [pg64](#)
- School Research Plan - EAS [pg65](#)

SECTION 5 **ĒTAHI KAUPAPA ANŌ | OTHER BUSINESS**

Closing Karakia

TE KARAKIA WHAKAMUTUNGA	ENDING PRAYER
<i>Ka wehe atu tātou</i>	<i>We are departing</i>
<i>I raro i te rangimārie</i>	<i>Peacefully</i>
<i>Te harikoa</i>	<i>Joyfully</i>
<i>Me te manawanui</i>	<i>And resolute</i>
<i>Haumi ē, Hui ē, Tāiki ē!</i>	<i>We are united, progressing forward!</i>



minutes

Te Komiti Rangahau o Unitec | Unitec Research Committee

Date:	2019-08-22
Scheduled Start:	1300h
Scheduled End:	1500h
Location:	Building 115-1030

MEETING OPENED:	1300h
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SECTION 1 – NGĀ KUPU ARATAKI | PRELIMINARIES

Item 1.1 Opening Karakia

KARAKIA TIMATANGA	BEGINNING PRAYER
<i>Manawa mai te mauri nuku</i>	<i>Embrace the power of the earth</i>
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<i>Tau mai te mauri</i>	<i>Cometh the light</i>
<i>Haumi ē, Hui ē, Tāiki ē!</i>	<i>Join it, gather it, it is done!</i>

Item 1.2 Welcome from the Chair

The Chair warmly welcomed the committee members.

SECTION 2 – STANDING ITEMS

Item 2.1 Ngā Whakapāha | Attendance, Apologies & Quorate Status

Members Present

1. Marcus Williams (Chair)
2. Jonathan Leaver
3. Kristina Naden
4. Heather Stonyer
5. Susan Eady
6. Christian Probst
7. Helen Gremillion

8. Leon Tan
9. Roger Birchmore
10. Maryam Mirzaei
11. Iman Ardekani
12. Arun Deo
13. Lian Wu

Total members represented: 13 member/s

Apologies

1. Falaniko Tominiko
2. Yusef Patel

Total apologies: 2 member/s

MOTION

That the Committee accept the apologies for the meeting.

MOTION CARRIED

Quorate Status

A minimum of 9 representatives was required; the meeting was quorate.

Hunga Mahi | Staff in Attendance

1. Asma Munir (Secretary)

Item 2.2 Pitopito Kōrero o Ngā Hui | Minutes of Previous Meeting

Correction: Jonathan Leaver's apology noted for 18 July meeting.

MOTION

That the Committee approve the Minutes for 2019-07-18 meeting as a true and accurate record.

MOTION CARRIED

Item 2.3 Mahia Atū | Matters Arising

All matters risen from the previous meeting were completed.

SECTION 3 - ITEMS TO APPROVE

Section 3.1 Re-start fund to support researchers returning from Parental Leave

The committee unanimously supported the establishment of re-start fund for new parents and approved terms of reference and templates subject to minor improvement to currently guidelines.

Section 4.1 2020 – 2024 Research Strategy Development Plan

Research at Unitec has grown significantly under the current Research Strategy with substantial shifts directly related to the original three goals in the 2015 – 2019 strategy;

- 32% increase in research compliant programmes since 2014 (47% - 2014 to 79% - 2019)
- 11% increase in PBRF rated staff (33% of eligible staff in 2012 – 44% in 2018)
- 287% increase in externally funded research

Notable changes and comments salient to the above growth and changes were highlighted in the Research Strategy Development Plan.

The Chair briefly discussed the key drivers behind the Research Strategy Development Plan, explaining that the strategy will be develop first. The Implementation plan will follow.

The committee asked questions regarding;

Net funding from research or revenue vs expenditure?

How is employability defined, with reference to the creative industries, where this can take a very different form?

How do we motivate researchers?

Feedback on provocations;

- *It would be easier for staff to understand the provocations if there were examples for each.*
- *There is a lack of recognition of research in terms of career progression especially part time staff*
- *Need to have a communication strategy*
- *Consider the link between research and what is taught with EER and PEPS in mind, remembering that the whole purpose of degree teaching being engaged in research is to keep current in teaching.*
- *Develop the strategy and the implementation plan separately*
- *The challenges around finding time to undertake research should be considered in the sustainability provocation*

Feedback on consultation;

- *The best way to consult is to visit schools and staff in their environments*

Action: Marcus to add examples to the provocations.

Action: Marcus to respond to the feedback on the provocations.

Action: Asma to explore options available for e-meeting to save time and eliminate carbon foot prints.

Section 4.2 PhD support toward PBRF portfolio

Marcus proposed the development of a mechanism to support emerging researchers where a PhD completion will be added to a portfolio and contribute to success in the PBRF reviews.

The committee expressed the need for carefully prescribed parameters, but unanimously supported the development of draft guidelines

Action: Marcus to develop draft terms of reference and templates.

Section 4.3 **2019 Research KPI Targets for Schools**

This purpose of this item was to inform the committee proposed 2019 Research KPI Targets for Schools.

Written report noted and received.

Action: Marcus to circulate 2019 Research KPI Targets to relevant stakeholders.

Section 4.4 **2019 PBRF report**

The 2018 PBRF Quality Evaluation Report, provides a comprehensive summary of results and achievements for Unitec.

Written report noted and accepted.

SECTION 5 - ĒTAHI KAUPAPA ANŌ | OTHER BUSINESS

Closing Karakia

TE KARAKIA WHAKAMUTUNGA

*Ka wehe atu tātou
I raro i te rangimārie
Te harikoa
Me te manawanui
Haumi ē, Hui ē, Tāiki ē!*

ENDING PRAYER

*We are departing
Peacefully
Joyfully
And resolute
We are united, progressing forward!*

MEETING CLOSED: 1510h

MATTERS ARISING FROM 22 AUGUST 2019 MEETING

Agenda Item	Matter Arising	Responsible	Outcome
4.1	2020 – 2024 Research Strategy Development Plan Action: Marcus to add examples to the provocations. Action: Marcus to respond to the feedback on the provocations. Action: Asma to explore options available for e-meeting to save time and eliminate carbon foot prints.	Marcus Williams Asma Munir	<i>Completed</i> <i>Completed</i>
4.2	PhD support toward PBRF portfolio Action: Marcus to develop draft terms of reference and templates.	Marcus Williams	<i>Completed</i> <i>(refer to agenda item 3.2)</i>
4.3	2019 Research KPI Targets for Schools Action: Marcus to circulate 2019 Research KPI Targets to relevant stakeholders.	Marcus Williams	<i>In progress</i>



For Approval

To	Unitec Research Committee	From	Marcus Williams
Title	Research Centre application; Ngā Wai a te Tūī	Date	12 th September 2019

Recommendation

That the Unitec Research Committee approve the attached application for a new research centre.

Purpose

To approve the third Unitec Strategic Research Foci as a Unitec Research Centre.

Background

Following the appointment of Professor Jenny Lee-Morgan at the end of 2018, the concept for a centre of Māori and Indigenous Research was conceived. This was gifted the name Ngā Wai a te Tūī by kaumatua Dr Haare Williams, Unitec's first Pae Arihi.

Next Steps

Formalise Ngā Wai a te Tūī as a Unitec Research Centre, in conjunction with the appropriate procedure.

Attachments

Ngā Wai a te Tūī Research Centre application

Contributors

Ngā Wai a te Tūī



Ngā Wai a Te Tūī

Māori & Indigenous Research

Centre Application



Presented to:

Unitec Research Committee
19th September 2019





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Mihi

E ngā mātāwaka, e ngā kārangaranga maha

Whakarongo! Whakarongo!

Whakarongo ki te tangi a te mātūī, “Tūī, tūī, tūī tūīa!”

Tūīa i runga, tūīa i raro, tūīa i roto, tūīa i waho.

Tūīa rātou kua mene atu ki te pō uriuri, ki te pō tangotango, ki te pō e oti atu ai

Tūīa te here tangata ki te whai ao, ki te ao mārama, Tihei mauri ora!

1. Background

1.1 Our name - Ngā Wai a Te Tūī

Ngā Wai a Te Tūī, Māori and Indigenous Research Centre will provide kaupapa Māori research to support Indigenous innovation and Māori development. The name of this Centre was gifted by Dr Haare Williams after a wānanga held on December 2018 about the proposed kaupapa of the Centre, and was officially opened in February 2019.

‘Ngā Wai a Te Tūī’ literally means ‘The waters of the Tūī’ and emphasises the importance of water to all living things, and connects us with the cultural waterways which our tūpuna have protected for hundreds of years. Te Whare Wānanga o Wairaka is located in the cultural landscape of Ōwairaka. The spring, Te Wai Unuroa o Wairaka, reminds us of our rich storied past and the ways our knowledge systems are embedded in the stories of the land, water and sky. The ‘Tūī’ is the iconic native bird with repertoire of songs that can be heard in the harakeke of Te Rangimarie, located close to Te Noho Kotahitanga Marae. Our logo, designed by Hohepa Renata and drawn from his manu series of artwork, directly aligns with the kaupapa of the Centre.



Metaphorically, the name of our Centre also signals the ‘streams’ of expertise, disciplines and knowledge that is brought together to enable the Tūī (our whānau and communities) to flourish. In this regard, we are a multi-disciplinary kaupapa Māori research group that recognises that real-world research questions are not easily solved by one specific or particular discipline. Rather, a kaupapa Māori transdisciplinary approach requires a number of people from a range of areas to work together in a problem-solving research team.



1.2 Te Manaaki o te Marae Research Project

The opportunity to establish Ngā Wai a Te Tūī was premised on the success of the two-year (2017-2019) research project 'Te Manaaki o te Marae', funded by Kāinga Tahī, Kāinga Rua, Building Better Homes and Cities (BBHTC), National Science Challenge (\$993,291). This collaborative project was co-led by Prof Jenny Lee-Morgan and Rau Hoskins, and brought together a large and multi-disciplinary research team to investigate the role of marae in the Tāmaki housing crisis. Based at Te Puea Memorial Marae (TPMM), a marae that Jenny Lee-Morgan has whakapapa connections, a collaborative research relationship was developed that included the signing of a MoU between TPMM and Unitec.



Photo: Te Manaaki o te Marae research team

1.3 The appointment of a Professor of Māori Research

In mid-December 2018, Jenny Lee-Morgan was appointed as Professor of Māori Research. This appointment also provided strong leadership for the Centre, and the opportunity to bring together research teams for specific kaupapa Māori projects. Jenny is a senior kaupapa Māori researcher who has led a number of large research projects in the areas of education, health, housing and kaupapa Māori methodology. Formerly, she was the Deputy Director of Te Kotahi Research Institute at the University of Waikato, and Head of School of Te Puna Wānanga (Māori Education) at the Faculty of Education, University of Auckland.



2. Ko ngā whainga: Our Strategy

2.1 Vision and Mission Statements

Vision:
To lead innovative Indigenous research that contributes to te puna mātauranga and supports flourishing whānau, hapū, iwi, marae and Māori communities.

Mission:
He pukenga wai, ka puta he tāngata He pukenga rākau, ka puta he kōrero

2.2 Key Priorities





3. Partnerships and Connections

Ngā Wai a Te Tūī affirms Te Tiriti o Waitangi as a kaupapa Māori research Centre, and supports Te Noho Kotahitanga which guides the partnership with Māori in Te Whare Wānanga o Wairaka.

3.1 Vision Mātauranga (VM)

Established in 2005, the VM mission statement is “To unlock the innovation potential of Māori knowledge, resources and people to assist New Zealanders to create a better future”. (2007, p.3). This policy framework provides strategic direction for Vote Research, science and technology (RS & T) investment and funding decisions, and identifies a range of needs and opportunities to researchers and research providers in order for the creation and application of knowledge related to VM. To realise the ‘innovation potential’ of the four VM themes (Indigenous Innovation; Taiao; Hauoro/Oranga; and Mātauranga), VM recognises “Many people will be involved in the production of this knowledge including, of course, Māori individuals, organisations and communities” (ibid, p.4).

Ngā Wai a te Tui is able to lead research related to the VM themes and strategic priorities, to collaborate with other research groups (internal and external) who align with VM, and advise on VM directives to other internal researchers and groups at Unitec.

3.2 Whakawhānaungatanga

Ngā Wai a Te Tūī is a kaupapa Māori Research centre, and as such is committed to Māori-led research that makes a difference for our whānau, hapū, marae, iwi and communities. As previously mentioned (and reflected in our name), Ngā Wai a Te Tūī is cognisant of our context in our cultural landscape.

As a Tāmaki-based research centre, we acknowledge the 19 iwi as holding mana whenua status in this region:

- Ngāti Wai
- Ngāti Manuhiri
- Ngāti Rehua
- Ngāti Whātua
- Te Uri o Hau
- Ngāti Whātua o Kaipara
- Ngāti Whātua Ōrākei
- Te Kawerau a Maki
- Ngāti Te Ata Waiohua
- Te Ahiwaru
- Ngāi Tai ki Tāmaki
- Ngāti Paoa
- Ngāti Whanaunga
- Ngāti Maru
- Ngāti Tamaterā
- Te Patukirikiri
- Ngāti Tamaoho
- Te Ākitai Waiohua
- Waikato

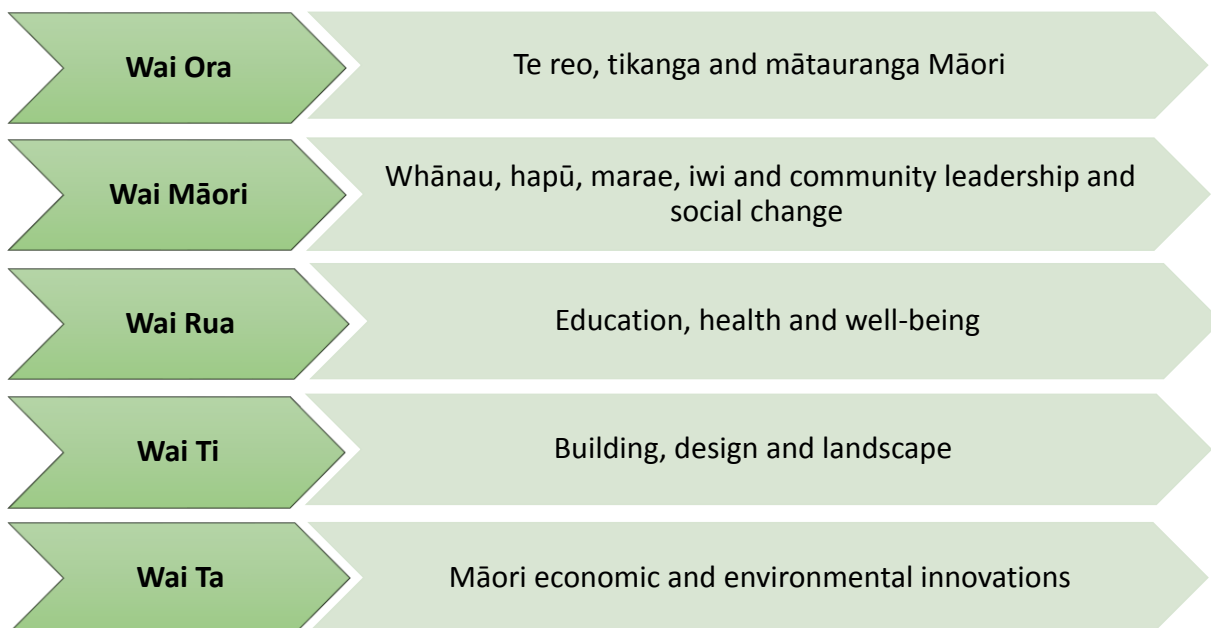


In addition, there are also other iwi and hapū in the region, as well as whānau who reside in Tāmaki from other tribal areas. We also acknowledge the 75 marae in Tāmaki Makaurau; 38 of which are in South Auckland and service approximately 80% of the total Auckland Māori population (Te Puni Kōkiri, 2018).

Other potential partnerships and collaborations include a range of Māori and non-Māori organisations, including other tertiary, community groups and central and local government agencies.

3.3 Ngā Wai: Strategic Foci

Currently, there are five key research streams (foci) based on current and proposed research projects and the knowledge and expertise of our research team and respective associated communities:



3.4 Internal Unitec Collaborations

3.4.1 The Director, Ngā Wai a Te Tūī reports directly to Te Tumu / Executive Director, Student Success for Te Whare Wānanga o Wairaka, and has a working relationship with the Director, Tūāpapa Rangahau. Ngā Wai a Te Tūī sits within the Māori Success Strategy and as such, internal collaborations include relevant leaders, teachers, students and community stakeholders engaged in 'Navigating Māori Success' (Unitec, 2019). These include the Director, Māori Success Mātauranga Māori; Director, Marketing and Student Attraction; Kaihautu; and Chairperson Te Rūnanga o Te Whare Wānanga o Wairaka.



For example, discussions are already underway with the Director, Māori Success Mātauranga Māori about the ways Ngā Wai a Te Tūī can include and support Māori students, in particular postgraduate students and staff, in our research activities. Te Hononga students (Centre for Māori Architecture and Appropriate Technologies) at Unitec, will continue to be engaged in research activities under the guidance of Māori tutors Rau Hoskins and Carin Wilson. The Tranche 2 BBHTC proposal will include Te Hononga.

- 3.4.2 Ngā Wai a Te Tūī has a direct relationship with Tūāpapa Rangahau which leads Unitec's Research and Enterprise Strategy. Ngā Wai a Te Tūī is the third Strategic Research Foci at Unitec and as such fulfils the objective in the current Unitec Research Strategy. These foci are recognised by Unitec leadership as being integral to Manaakitia te Rito, the Unitec Renewal Plan.

The Director, Ngā Wai a Te Tūī will work closely with the Director, Tūāpapa Rangahau to identify potential research opportunities, partners and collaborators, as well as work together to strengthen processes and procedures to ensure the best outcomes for Unitec and stakeholders. Tūāpapa Rangahau provides critical internal support in the areas of legal and contractual advice; technical assistance; and financial and administrative activities. The provision of this support is integral to the functioning and operations management of Ngā Wai a Te Tūī.

- 3.4.3 Ngā Wai a Te Tūī will look to develop relationships with other research centres and schools who are interested in collaborative kaupapa Māori research ie. Environmental Solutions (ESRC) led by Dr Terri-Ann Berry, and Applied Molecular Solutions led by Dr Dan Blanchon.

4. Staff Members involved

4.1 Proposed Research Centre Director

Professor Jenny Lee-Morgan (Waikato-Tainui, Ngāti Mahuta) is the founding Director of Unitec's Ngā Wai ā Te Tūī, Māori and Indigenous Research Centre. Jenny has a distinguished track record of teaching and kaupapa Māori research. One of the projects she is currently co-leading is a large multidisciplinary research team, based at Te Puea Memorial Marae in South Auckland focussing on rehousing homeless whānau, funded by Kāinga Tahi, Kāinga Rua, BBHTC, National Science Challenge.



In 2016 Jenny was awarded Te Tohu Pae Tawhiti Award by the New Zealand Association for Research in Education in recognition of her high-quality research and significant contribution to the Māori education sector. Jenny's co-edited book 'Decolonisation in Aotearoa: Education, Research and Practice' (Hutchings & Lee-Morgan, 2016) presents a broad, decolonised agenda for Māori development and won Te Kōrero Pono (non-fiction category) in the Ngā Kupu Ora Aotearoa Māori Book Awards 2017.

Building on her interest in pūrākau as methodology, her most recent publication is co-edited book with Prof Jo-ann Archibald and Dr Jason De Santolo is entitled 'Decolonizing Research: Indigenous Storywork as Methodology', published by Zed Books.

4.2. Key staff members (CVs attached)

Unitec Personnel

Professor Jenny Lee-Morgan (Waikato-Tainui, Ngāti Mahuta)

Director, Ngā Wai a Te Tūī	Fixed - 0.2FTE to 31/12/2020
Co-PI: Te Manaaki o Te Marae Research Project	Fixed - 0.3FTE to 30/09/2019
Co-PI: Kia Poipoia te Kakano Research Project	Fixed – 0.1FTE to 30/09/2019
Co-PI: Urban Intergenerational Kāinga Innovations	Fixed – 0.1FTE to 10/12/2019
Co-PI: Puni Reo: Normalising Māori Language in new domains	Fixed – 0.1FTE to 30/12/2020
PI: Te Puea Marae - Māori medium Digital Resource	Fixed – 0.1FTE to 26/08/2019
PI: Indigenous Storywork	Fixed – 0.1FTE to 31/12/2019
PI: Tukua ki te Ao: Normalising te reo in organisations	Complete

Rau Hoskins (Ngāpuhi, Ngāti Hau)

Co-PI: Te Manaaki o Te Marae Research Project	Fixed - 0.2FTE to 30/09/2019
Co-PI: Kia Poipoia te Kakano Research Project	Fixed – 0.1FTE to 30/09/2019
Co-PI: Urban Intergenerational Kāinga Innovations	Fixed – 0.2FTE to 10/12/2019

Rihi Te Nana (Ngāti Haaua, Ngāpuhi, Tuwharetoa, Ngāti Maniapoto, Ngāti Raukawa)

Kai Rangahau: Te Manaaki o Te Marae Research Project	Fixed – 0.4FTE to 30/09/2019
Kai Rangahau: Kia Poipoia te Kakano Research Project	Fixed – 0.1FTE to 30/09/2019
Kai Rangahau: Urban Intergenerational Kāinga Innovations	Fixed – 0.2FTE to 10/12/2019

Irene Kereama-Royal (Ngāpuhi, Ngāti Tuwharetoa, Ngāti Raukawa Te Au Tonga and Parehauraki)

Kai Rangahau: Ngā Wai a Te Tūī	Permanent – 0.6FTE
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Dr Tia Reihana-Morunga (Ngāti Hine)

Kai Rangahau: Kia Poipoia te Kakano Research Project	Fixed – 0.5FTE to 30/09/2019
Kai Rangahau: Te Manaaki o te Marae	Fixed – 0.2FTE to 30/09/2019



Jacqueline Paul (Ngāti Kahungunu ki Heretaunga, Ngāti Tuwharetoa, Ngā Puhi)

Kai Rangahau: Urban Intergenerational Kāinga Innovations | Fixed – 0.5FTE to 10/12/2019

Associate Professor Leonie Pihama (Te Ātiawa, Ngāti Māhanga, Ngā Māhanga a Tairi)

Kai Rangahau: He Waka Eke Noa | Commences 01/10/2019
Fixed – 0.25FTE to 30/09/2022

Ngāhuia Eruera (Ngāti Awa, Ngai Tuhoe, Tuhourangi)

Pou Tātaki | Fixed – 1FTE to 31/12/2020

External Personnel & Organisation

Professor Linda Smith (Ngāti Porou, Ngāti Awa), University of Waikato

Kai Rangahau: He Waka Eke Noa | Commences 01/10/2019
Fixed - 0.15FTE to 30/09/2022

Herearoha Skipper (Waikato-Tainui), University of Waikato

Kai Rangahau: He Waka Eke Noa | Commences 01/10/2019
Fixed - 0.25FTE to 30/09/2022

Dr Jen Martin (Te Rarawa), University of Auckland

Kai Rangahau: He Waka Eke Noa | Commences 06/01/2020
Fixed - 0.25FTE to 30/09/2022

Dr Mohi Rua (Tuhoe), University of Waikato

Kai Rangahau: Te Manaaki o Te Marae | Fixed – Complete

Dr Ella Henry (Ngātikahi ki Whangaroa, Te Rārawa, Ngāti Kuri), Auckland University of Technology

Advisor: Te Manaaki o Te Marae | Fixed – Complete

Wayne Knox (Ngāti Porou, Ngāti Mahuta, Ngāti Apakura), Te Matapihi

Kai Rangahau: Te Manaaki o Te Marae | Fixed – Complete

Hurimoana Dennis (Ngāti Porou, Ngāti Kahungunu, Rongowhakaata), Masters Student

Kai Rangahau: Te Manaaki o Te Marae | Fixed – Complete

Lena Henry (Ngāti Hine, Ngāpuhi, Te Rarawa), University of Auckland

Kai Rangahau: Te Manaaki o Te Marae | Fixed – Complete

Leisa Nathan (Ngāti Whātua, Ngāpuhi, Ngāti Kahu, Ngāti Raukawa, Ngāti Maniapoto), Ochre Business Solutions

Kai Rangahau: Te Manaaki o Te Marae | Fixed – Complete

Reuben Smiler (Ngāti Kahungunu, Tainui, Ngāti Apakura), Masters Student

Kai Rangahau: Te Manaaki o Te Marae | Fixed – Complete



5. Funding

The centre will receive funding primarily from grants from central and local government and from industry partners. An itemised budget, forecasting five year projection, is attached. The centre will work closely with staff from Tūāpapa Rangahau to identify other funding opportunities that may include paid consultancies, student scholarships and the hosting of conferences and symposia.

6. Distinctiveness: Kaupapa Māori Research

In brief, Kaupapa Māori refers to Māori-centred philosophies, frameworks and practices and is asserted by the notion of tino rangatiratanga and the Treaty of Waitangi (Nepe, 1991; Smith, G. H., 1997). As theory and methodology, kaupapa Māori was purposefully developed to advocate for the validity of Māori philosophies, understandings and worldviews based on the 'taken-for-granted' position of Māori language, knowledge and culture (Lee, 2008; Pihama, 2010; L.Smith, 2012). Kaupapa Māori theoretical and methodological approaches locate research as part of a wider struggle by Māori communities to seek ways in which we can contribute to making transformative change in the wider framework of self-determination, decolonisation and social justice.

As a kaupapa Māori research centre, Ngā Wai a te Tui adheres to a kaupapa Māori approach in all parts of the research endeavour. In simple terms, kaupapa Māori provides a way to frame and structure our thinking and approaches to research. It enables an analysis of issues within Aotearoa from a research approach that is distinctively Māori. Kaupapa Māori provides direct affirmation of cultural values, beliefs and practices, such as whanaungatanga as both relationships and process, in order to connect with the complexity of diverse Māori lived realities in the research context (Irwin, 1992; Pihama, 2001; L. Smith, 2012).

The following key elements of kaupapa Māori theory provide an important framework for our strategic foci and work. Six elements were initially developed by Graham Hingangaroa Smith (1990) within the context of educational intervention (Kura Kaupapa Māori) and research [\[1\]](#). These elements have been expanded on here by other Kaupapa Māori theorists such as Linda Smith (1997), Leonie Pihama (2001) and Taina Pohatu (2005).

Tino Rangatiratanga - The Principle of Self-determination

Tino Rangatiratanga relates to sovereignty, autonomy, control, self-determination and independence. The notion of Tino Rangatiratanga asserts and reinforces the goal of Kaupapa Māori initiatives: allowing Māori to control their own culture, aspirations and destiny.



Taonga Tuku Iho - The Principle of Cultural Aspiration

This principle asserts the centrality and legitimacy of Te Reo Māori, Tikanga and Mātauranga Māori. Within a Kaupapa Māori paradigm, these Māori ways of knowing, doing and understanding the world are considered valid in their own right. In acknowledging their validity and relevance it also allows spiritual and cultural awareness and other considerations to be taken into account.

Ako Māori - The Principle of Culturally Preferred Pedagogy

This principle acknowledges teaching and learning practices that are inherent and unique to Māori, as well as practices that may not be traditionally derived but are preferred by Māori.

Kia piki ake i ngā raruraru o te kainga - The Principle of Socio-Economic Mediation

This principle asserts the need to mediate and assist in the alleviation of negative pressures and disadvantages experienced by Māori communities. This principle asserts a need for Kaupapa Māori research to be of positive benefit to Māori communities. It also acknowledges the relevance and success that Māori derived initiatives have as intervention systems for addressing socio-economic issues that currently exist.

Whānau - The Principle of Extended Family Structure

The principle of Whānau sits at the core of Kaupapa Māori. It acknowledges the relationships that Māori have to one another and to the world around them. Whānau, and the process of whakawhanaungatanga are key elements of Māori society and culture. This principle acknowledges the responsibility and obligations of the researcher to nurture and care for these relationships and also the intrinsic connection between the researcher, the researched and the research.

Kaupapa - The Principle of Collective Philosophy

The 'Kaupapa' refers to the collective vision, aspiration and purpose of Māori communities. Larger than the topic of the research alone, the kaupapa refers to the aspirations of the community. The research topic or intervention systems therefore are considered to be an incremental and vital contribution to the overall 'kaupapa'.

Te Tiriti o Waitangi - The Principle of the Treaty of Waitangi

Pihama (2001) identified another principle to be taken into account within Kaupapa Māori theory: Te Tiriti o Waitangi (1840) is a crucial document which defines the relationship between Māori and the Crown in New Zealand. It affirms both the tangata whenua status of whānau, hapū and iwi in New Zealand, and their rights of citizenship. The Tiriti therefore provides a basis through which Māori may critically analyse relationships, challenge the status-quo, and affirm the Māori rights.

Āta - The Principle of Growing Respectful Relationships

The principle of āta, was developed by Pohatu (2005) primarily as a transformative approach within the area of social services. The principle of āta relates specifically to the building and nurturing of relationships. It acts as a guide to the understanding of relationships and wellbeing when engaging with Māori.



7. Management and Operation

7.1 Proposed Location

Ngā Wai a Te Tūī is currently in negotiations to relocate from building 002 to the east wing ground floor of building 111 at the Mt Albert Campus, as part of the decant transition of departments to the central hub. This relocation is intended to accommodate the Ngā Wai a Te Tūī staff and external research contractors, as well as the growth provision of personnel in future. The proposed location shall be equipped with a reception and visitors lounge, a dedicated office for the Director, meeting room, break-out room and adequate number of workstations and hot desks for both staff and external research contractors.

7.2 Proposed Advisory Board

A Kāhui Kaupapa Māori advisory board will be established in 2020 and shall provide Ngā Wai a Te Tūī with strategic leadership guidance and kaupapa Māori research related advice. Members of this advisory board will be highly regarded representatives in the disciplinary research sectors, iwi, hapū, marae and/or Māori communities. The Kāhui Kaupapa Māori will be made up of representatives from:

- ELT
- Rūnanga
- Kaumatua / community
- Māori Professorial (external)

7.3 Proposed Personnel

As at September 2019 Ngā Wai a Te Tūī has 5.0FTE committed. With the growth in proposed research contracts will increase the staff capacity of qualified and experienced kaupapa Māori researchers and administrators to provide quality support to the provision of the contract milestones. With the proposed research contracts in mind, the projection of personnel for Ngā Wai a Te Tūī will increase significantly over the next five years.

7.4 Proposed Operational Financing

Each research contract will commit calculated overheads to the Centre's Operating budget. Determined by the contributing overheads, an annual Operating budget will be prepared that shall consist of fixed costs, salaries and variable expenses.

7.5 External Research Income

See budget attached



8. Outcomes

8.1 Funded Research (completed)

Tukua ki te Ao – PI Jenny Lee-Morgan. Funded by Te Taura Whiri this research was an investigation on the subjective motivations of organisations to implement te reo Māori within their workforce. A comprehensive research report was produced and informed Te Taura Whiri i te reo Māori of the key findings, policy implications and recommendations, of implementing the learnings to support the revitalisation of te reo Māori. Now completed, the report includes a suite of case studies to increase respective understanding to support their knowledge base on how they can implement these case studies into their organisations.

Pūrākau and Indigenous Storywork – PI Jenny Lee-Morgan. Funded by Ngā Pae o Te Maramatanga this research was to host and showcase the book 'Decolonizing Research: Indigenous Storywork as Methodology' and acknowledge the support of Ngā Pae o te Māramatanga and the Event Support Grant.

8.2 Current Funded Research (in progress)

Te Manaaki o Te Marae – PI Jenny Lee-Morgan and Rau Hoskins. Funded by the National Science Challenge, Kāinga Tahī, Kāinga Rua this is a three year housing research project. The impact of this kaupapa Māori research is multiple and multi-dimensional. Documenting and analysing the radical innovation initiated at Te Puea Memorial marae, this research demonstrates the disruptive potential of mana whenua, taura here and mataawaka marae in Tāmaki Makaurau to intervene and respond to the Māori housing crisis and the well-being of our most vulnerable Māori whānau. The impact and key outcome of this project will result in whānau accommodation in secure, healthy and affordable homes while ensuring the right social support to strengthen and flourish in all areas of their lives. The other key outcomes of this project cohere around the agency of marae, their physical infrastructure requirements and models and protocols for engagement with local and government agencies. The overall impact of this research is to strengthen the ability of marae to manaaki and thereby realise the potential of marae-led housing interventions in the ongoing Tāmaki housing crisis.

Poipoia Te Kakano Kia Puawai – PI Jenny Lee-Morgan and Rihi Te Nana. Funded by National Science Challenge, Kāinga Tahī, Kāinga Rua, this kaupapa Māori scoping research involves the collaborative exploration of innovative iwi trade training programmes. Exploring how multiple iwi, along with the construction sector engagement, may co-design a culturally relevant training programme, supported by purpose designed modern Māori pastoral care delivery mechanism that is focussed on academic and trade proficiency. This project aims to investigate the implications of such a model for workforce development that will support Māori into apprenticeships and employment. The opportunities to



develop tripartite relationships between iwi, industry and tertiary providers to encourage and grow rangatahi Māori and adult second chance learners to pursue careers within the construction sector.

Pūrākau - Te Manaaki o Te Puea Memorial Marae project – PI Jenny Lee-Morgan. Funded by the Ministry of Education, and in partnership with Cognition Education, this kaupapa Māori project develops a Māori language digital resource. This project involves the creation of stories, content and audio/visual development of 'Te Manaaki o Te Puea Memorial Marae'.

Urban Intergenerational Kainga Innovations – PI Jenny Lee-Morgan and Rau Hoskins. Funded by the National Science Challenge this kaupapa Māori scoping research involves the creation of the research agenda for Tranche 2 of the Kāinga Tahī Kāinga Rua, BBHTC. This project includes meeting with 6-8 marae and community groups to ascertain relevant research as a basis for the development of a proposal for a programme of work in 2020 – 2025.

Puni Reo: Normalising Māori Language in new domains – PI Jenny Lee-Morgan.

Funded by Ngā Pae o Te Maramatanga this kaupapa Māori research will investigate an innovative initiative of Puni Reo that seeks to create safe and supportive spaces to use te reo Māori within the environment of sport and other activities. Through the facilitation and promotion of activity-based Māori language domains, such as netball, Puni Reo also provides a potential tool to normalise te reo in 'new' domains. This research shall develop the theory and practices of Puni Reo to understand the impact and potential of Puni Reo as an indigenous innovation in the field of language revitalisation, and will develop a framework for the success and sustainability of Puni Reo in Aotearoa, with the potential to be adapted and developed with other Indigenous languages.

8.3 Submitted Research Proposals

August 2019 - Te Pai me te Whairawa o Ngā Marae o Tāmaki (3 year)

Funded by Auckland Council Te Toa Takitini, this kaupapa Māori research will investigate ways to strengthen marae to ensure they are self-sustaining and prosperous and fit for the future of Tāmaki. This project will investigate the five dimensions of marae in their cultural and environmental settings: Whenua; Wai; Whānau; Whare and Whairawa, and will support the marae to determine which of the 5 W's each marae would like to explore within their cultural, physical, operational and economic infrastructure. The project will be a pilot study with one marae located in South Auckland.



August 2019 - He Toi Whakairo, He Mana Tangata (6mths)

Funded by Auckland Council this kaupapa Māori research proposes an investigation on the existing connections and relationships between Kura Kaupapa Māori, tertiary design education providers and the design industry. This project seeks to examine what impediments exist between those institutions, what opportunities there are to align secondary and tertiary curricula, and to identify a range of mechanisms that make rangatahi aware of these career opportunities, with a view to developing a sustainable pathway for rangatahi to higher value jobs within this sector of the creative economy. The research will make recommendations for action, which will allow for the development of implementation plans targeted to respective sector groups, and will also identify one pilot programme for Council whānau to champion to prove concept.

July 2019 - Ihumaatao Community Development (1 year)

Funded by Te Puni Kokiri, Māori Housing Fund this kaupapa Māori research provides a critical opportunity for the community of Ihumaatao to identify their strengths, resources and aspirations for community development projects that include housing activities. This project will deliver a comprehensive community-led report that will bring together the voices of the community and signal key community housing, environmental and economic development initiatives within the current context of the Ihumaatao community.

August 2019 - Ahikiwi Eco-Cultural Park Project (3mths)

Funded by the Provincial Growth Fund, Full Building funding this kaupapa Māori research proposes to lift the productivity of Māori owned land and sustainably access natural resources in the Ahikiwi valley by growing native trees and vegetation on a large scale for Northland planting projects, preservation of native trees and native trees for commercial ventures. The cultural centre is intended to showcase the culture and traditions of the Ahikiwi community through food and retail outlets, arts displays and storytelling performances. The overall theme of both ventures is to underpin all of the work in the nursery with a planned research agenda that maps progress with kauri dieback and other tree diseases through science led, nursery management practices and resolutions for eg. disease resistant screenings, and to support a wider program of horticulture, silviculture, tree genomics and strong soil science to support future advancements in agronomy and nursery propagation. The research also proposes to explore how mātauranga Māori and western science can be integrated into the nursery and the cultural centre for example, with growing and harvesting according to the Māori calendar and storytelling performances as education initiatives relaying a Māori worldview of the whakapapa of trees through the cultural centre.



October 2019 - Marae Ora, Kāinga Ora: Marae-led housing interventions that develop kāinga (3 years)

Funded by MBiE Endeavour Fund - Research Programmes this kaupapa Māori research investigates the evolution of marae and focuses on distinctive challenges and opportunities arising within Māori communities. Marae Ora, Kāinga Ora (MOKO) provides an opportunity to undertake research by, for and with marae and communities which will contribute to the strategic and collective development of kāinga ora for whānau and community wellbeing in South Auckland and all of New Zealand. As well as the ability to strengthen Māori whānau and enhance community conditions, MOKO has an opportunity to influence local and central government agencies and services to engage and collaborate to effect meaningful change for Māori. MOKO will provide a catalyst to effect transformative, intergenerational change for whānau and the wider community. The project focuses on 'new' ways of living and organising communities by encompassing traditional ways of understanding our natural and social environments for long-term sustainability.

9. Work Programme and Milestones

The proposed work programme is described in the attached budget. For project milestones, please see individual project descriptions.



PROPOSED 5 YEAR BUDGET - 2020 - 2024

Funded Research Projects:

Project Code	Project Title	Pre-2019	2019	2020	2021	2022	2023	2024	TOTAL INCOME
RE17008	Te Manaaki o te Marae	\$ 736,167.00	\$ 257,124.00						\$ 993,291.00
RE18014	Tukua ki te Ao		\$ 42,554.00						\$ 42,554.00
RE18018	Poipoia Te Kakano Kia Puawai		\$ 69,605.00						\$ 69,605.00
RE19002	Showcasing Decolonizing Research: Indigenous Storywork as Methology		\$ 8,400.00						\$ 8,400.00
RE19004	Pūrakau - "Te Manaaki o Te Puea Memorial Marae".		\$ 36,100.00						\$ 36,100.00
RE19010	Urban Intergenerational Kāinga Innovations		\$ 79,900.00						\$ 79,900.00
TRANS	He Waka Eke Noa: Prevention and Intervention in Family and Sexual Violence for Māori	\$ 540,096.00	\$ 90,016.00	\$ 540,096.00	\$ 540,096.00	\$ 450,080.00			\$ 1,620,288.00
PP300619	Puni Reo: Normalising Māori Language in new domains			\$ 59,950.00					\$ 59,950.00
Key									
Funded									
Submitted applications									
Under development									



Submitted Research Proposals:

Project Code	Project Title	Pre-2019	2019	2020	2021	2022	2023	2024	TOTAL INCOME
PP190419	Te pai me te whai rawa o te marae o Tāmaki			\$ 200,000.00	\$ 200,000.00	\$ 200,000.00			\$ 600,000.00
PP170519	Ihumaatao Community Development			\$ 187,788.00					\$ 187,788.00
PP010519	Ahikiwi Eco-Cultural Park Scoping project		\$ 135,000.00	\$ 135,000.00	\$ 25,000.00	\$ 25,000.00			\$ 320,000.00
PP010319	Marae Ora, Kainga Ora		\$ 293,950.25	\$ 1,175,801.00	\$ 1,175,801.00	\$ 881,850.75			\$ 3,527,403.00
PP020719	He toi whakairo, he mana tangata		\$ 42,494.67	\$ 21,247.33					\$ 63,742.00
SUBMITTED RESEARCH PROPOSALS			\$ 471,444.91	\$ 1,719,836.33	\$ 1,400,801.00	\$ 1,106,850.75	\$ -	\$ -	\$ 4,698,933.00
Key									
Funded									
Submitted applications									
Under development									



Under Development Research Proposals:

Project Code	Project Title	Pre-2019	2019	2020	2021	2022	2023	2024	TOTAL INCOME
JLM	Pūrakau Pedagogy: Ako			\$ 100,000.00					\$ 100,000.00
JLM	Māori Language Zones: TRLI			\$ 150,000.00					\$ 150,000.00
NWaTT	Urban Intergenerational Kāinga Innovations - Tranche 2			\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 2,000,000.00
JLM / IKR	Tangatapū - Taro Co-op: PGF			\$ 150,000.00	\$ 150,000.00	\$ 150,000.00			\$ 450,000.00
JLM / IKR	Te Māhurehure Marae - Kupe Navigation Centre: Lotteries		\$ 90,000.00	\$ 90,000.00					\$ 180,000.00
NWaTT	ICP - Traditional Fisheries Values & Contemporary Realities: Te Ohu Kaimoana Funding			\$ 60,000.00	\$ 60,000.00				\$ 120,000.00
JLM / IKR	Waimangō: Māori autonomy in the aquaculture industry, Expressions of mana moana in the Hauraki Gulf: PGF								\$ -
RT / IKR	PARS Scoping			\$ 60,000.00					\$ 60,000.00
RT / LP	Kimiora Trust Māori Suicide: HRC Kanohi Kitea Grant			\$ 250,000.00	\$ 250,000.00				\$ 500,000.00
UNDER DEVELOPMENT PROPOSALS			\$ 90,000.00	\$1,260,000.00	\$ 860,000.00	\$ 550,000.00	\$ 400,000.00	\$ 400,000.00	\$ 3,560,000.00
Key									
Under development									
Submitted applications									
Funded									



Ngā Wai a Te Tūī

Māori & Indigenous Research

Staff Curriculum Vitae



Presented to:

Unitec Research Committee
19th September 2019



Jenny Lee-Morgan

New Zealand RS&T Curriculum Vitae Template

PART 1

1a. Personal details				
Full name	<i>Title</i>	<i>First name</i>	<i>Second name(s)</i>	<i>Family name</i>
	Prof	Jenny	Bol Jun	Lee-Morgan
Present position		Professor of Māori Research, Director Ngā Wai o te Tūi Māori Research Centre, Te Wānanga o Wairaka, Unitec		
Organisation/Employer		Unitec Institute of Technology		
Contact Address		Private Bag 92025		
		Victoria Street West		
		Auckland	Post code	1142
Work telephone	09 815 4321		Mobile	021 598 225
Email	jleemorgan@unitec.ac.nz			

1b. Academic qualifications

2008	EdD, The University of Auckland
1996	MA (Māori Education, 1st Class Honours), The University of Auckland
1992	BA, BEd, Dip. Tchg (secondary), The University of Waikato

1c. Professional positions held

2018	Director, Ngā Wai a te Tūi Māori and Indigenous Research Centre, Unitec
2016	Deputy Director, Te Kotahi Research Institute, Associate Professor, The University of Waikato
2012-2015	Head of School, Te Puna Wānanga, Faculty of Education and Social Work, The University of Auckland
2010-2013	Senior Lecturer, Adjunct Faculty, Te Whare Wānanga o Awanuiārangī
2004-present	Managing Director, Rautaki Ltd
2000-2005	Lecturer, Te Aratīatia, School of Education, The University of Auckland
1996-2000	HOD Māori/Dean Ngā Tumanako o Kahurangi, Auckland Girls' Grammar

School

1995 Teaching Fellow, University of Canterbury

1993-1995 HOD Māori, Northcote College

1d. Present research/professional speciality

Kaupapa Māori Research; Marae; Housing; Kaupapa Māori methodology; Pūrākau as narrative inquiry, Māori education, Ako (Māori pedagogy), Māori language

2019 (PI) Poipoia te Kakano: Repositioning iwi trade training.

2017-2019 (PI) Te Manaaki o te Marae: The role of marae in the Auckland housing crisis. Building Better Homes Towns and Cities, National Science Challenge.

2018-2019 (PI) Tukua ki te ao: Te normalisation of te reo Maori in organisations. Te Taura Whiri i te Reo (Māori Language Commission)

2018 (PI) Te Matarere: The future of te reo Maori in Waikato-Tainui to 2038. Te Mātāwai

2017 (PI) Te Pū o te Rākau: The pedagogy of pūrākau. Ngā Pae o te Maramatanga.

2017 (PI) Pūrākau as methodology: An Indigenous narrative inquiry approach. The University of Waikato.

2015-2017 (AI): Te Tātua o Kahukura: AKO Aotearoa

2016: Te ahu o te Reo: 2015-2017 (PI) Taikākā: Optimising Māori academic achievement in Initial Teacher Education

2010-2012 (PI) Marae-ā-kura: School Marae. Teaching Learning and Research Initiative (TLRI)

1e. Total years research experience

18 years

1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc.)

Executive, advisory or governance roles

2016 – 2018 BOT, Newton Central School, Auckland

2013 – 2016 Advisor, Ropu Tikanga Rangahau, Te Wāhanga, NZCER.

2013 – 2016 Member of Carnegie Project on Education Doctorate (CPED)

2012 – 2016 Academic Director, MAI ki Tamaki, Ngā Pae o te Maramatanga

Membership to professional committees/groups

2012 - 2016 New Zealand Association of Educational Research (NZARE)

2014 – 2015 Reference group of OLT project: PLD to embed inclusive and explicit teaching practices in higher education, Victoria University, Melbourne

2012 -2015 American Educational Research Association (AERA)

Significant Distinctions/Awards

2018 Te Tohu Rapuora, The Health Research Council of New Zealand

2017 Winner of Te Kōrero Pono (non-fiction category) in the Ngā Kupu Ora

Aotearoa Māori Book Awards 2017 for Hutchings, J & J BJ Lee-Morgan (2016) Decolonisation in Aotearoa: Education, Research and Practice. Wellington: NZARE

2016 Te Tohu Pae Tawhiti Award, NZARE

2008 Inaugural Post-Doctoral Fellow, Te Whare Wānanga o Awanuiārangī

2007 Chinese Poll Heritage Trust Grant

2006 Waikato Raupatu Lands Trust Doctoral Scholarship

2005 Ngā Pae o te Māramatanga Doctoral Scholarship

2003 Ministry of Education Post Graduate Scholarship

1g. Total number of <i>peer reviewed</i> publications and patents	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	10	14	3	0

2a. Research publications and dissemination

Pihama, L., **J. Lee-Morgan**, L. Smith, S. Tiakiwai & J. Seed-Pihama (forthcoming). *MAI*

Te Kupenga: Supporting Māori and Indigenous doctoral scholars within Higher Education in Alternative: An International Journal of Indigenous Peoples.

Pihama, L., Miller, J.M., Greensill, H., Te Nana, R., Campbell, D., **Lee-Morgan, J.**

(forthcoming) 'Treasuring Future Generations: Māori & Hawaiian Ancestral Knowledge & The Wellbeing of Indigenous Children' in *Journal of Indigenous Wellbeing: Te Mauri – Pimatisiwin*.

Lee-Morgan, J., Courtney, M., & Muller, M. (2018). New Zealand Māori medium teacher

education: an examination of students' academic confidence and preparedness, *Asia-Pacific Journal of Teacher Education*, DOI: 10.1080/1359866X.2018.1539214

Lee-Morgan, J. & Muller, M. (2017). On stage Māori- medium ITE: Listening to students'

voices. *New Zealand Annual Review of Education*, 22, 21-35.

Lee, J. BJ. (2013) Mehemea ka moemoea tatou, ka taea e tatou. Set: Research

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Lee, J. BJ. (2013) Marae a-kura: Tracing the birth of marae in schools. Set: Research

Information for Teachers, 2, 3-11. Retrieved from <http://www.nzcer.org.nz/nzcerpress/set/articles/marae-kura-tracing-birthmarae-schools>

Lee, J. BJ. (2012). Kia tangi te titi: Permission to speak - successful schooling for Maori

students in the 21st century. Review in *NZ Journal of Educational Studies*, 47 (2), 119-121. Lee

Lee, J. BJ. (2011) Kaiako: Māori teachers as cultural workers. *He Pūkenga Kōrero*,

Massey University, 10(2), 19-27.

Lee, J. BJ. (2009). Decolonising Māori narratives: Making methodological space for

pūrākau as a narrative inquiry method. *MAI Review*

Lee, J. BJ. (2002). Akonga Māori: A Framework of Study on Māori Secondary School

Teachers. *Action in Teacher Education Journal Special Issue "Indigenous Perspectives of Teacher Education: Beyond Perceived Borders"*, XXIV (2, Summer), 64-74.

- Pihama, L., & **Lee-Morgan, J.** (2019). Colonization, Education, and Indigenous Peoples. In Handbook of Indigenous Education. Singapore: Springer Singapore.
- Lee-Morgan, J.**, R. Hoskins, R. Te Nana, M. Rua, W. Knox. (2018) Mahia te mahi: In service to homeless whānau. Auckland: Te Puea Memorial Marae.
- Archibald, J., J **BJ Lee-Morgan** & J DeSantolo (eds) (forthcoming). Decolonizing Research: Indigenous Story work as Methodology. Zed Books: United Kingdom, London
- Lee-Morgan, J** (forthcoming) From the inside out: At the heart of pūrākau. in Archibald, J., J B J Lee-Morgan & J DeSantolo (eds) Decolonizing Research: Indigenous Story work as Methodology. Zed Books: United Kingdom, London
- Lee-Morgan, J.** (2017) Pūrākau: Hei kaupapa rangahau mana motuhake Māori! in A. McFarland & N. Mathews (Eds) He kete Whakawaitara he whakatara ā-rangahau. Wellington: NZCER.
- Hutchings, **J.**, **Lee-Morgan, J.** (eds) (2016) Decolonisation in Aotearoa: Education, research and practice, Wellington: NZCER Press.
- Lee, J.** (2016). Indigenising the EdD in New Zealand. In V. A. Storey (Ed.), International Perspectives on Professional Practice Doctorates: Applying a Critical Friends Approach to Educational Doctorates and Beyond. Palgrave Macmillan.
- Pihama, L., **Lee, J.**, Te Nana, R., Campbell, D., Greensill, H., & Tauroa, T. (2015). Te pā harakeke: Whānau as a site of wellbeing. In R. E. Rinehart, E. Emerald, & R. Matamua (Eds.), Ethnographies in Pan Pacific Research Tensions and Positionings (pp. 251-266). Routledge.
- Pihama, L., Greensill, H., Campbell, D., Te Nana, R., & **Lee, J.** (2015). Taku Kuru Pounamu. Hamilton, New Zealand: Te Kotahi Research Institute.
- Santamaría, L. **J.**, **Lee, J.**, & Harker, N. (2014). Optimising Māori academic achievement (OMAA): An indigenous led, international, inter-institutional higher education initiative. In F. Cram, H. Phillips, P. Sauni, & C. Tuagalu (Eds.), Māori and Pasifika higher education horizons, diversity in higher education. H. T. Frierson (Series Ed.) (pp. 201-221). USA: Emerald Books.
- Hutchings, J., Barnes, A., Taupo, K., Bright, N., Pihama, L., & **Lee, J.** (2012). Kia puāwaitia ngā tumanako: Critical issues for whānau in Māori education. Wellington, N.Z.: New Zealand Council for Educational Research.
- Lee, J.**, Selwyn, C. (2010) Oho ake: Rehu Marae, Ngā Puna o Waiōrea. Auckland: Rautaki.
- Lee, J.** (2007) Jade Taniwha: Māori-Chinese Identity and Schooling. Auckland: Rautaki
- Lee, J.** (2003). Eating Pork Bones and Puha with Chopsticks: The Emergence of Māori-Chinese. In Ip, Manying (ed.) Unfolding History, Evolving Identity: The Chinese in New Zealand (pp. 94-112), Auckland, N.Z: Auckland University Press.

Refereed conference proceedings
<p>Lee, J. (forthcoming). Researching with rangatiratanga: Pūrākau as 'evidence'. 2015 Kei Tua o Te Pae: Re-searching Rangatiratanga, Innovating Mātauranga, Te Wānanga o Raukawa Otaki.</p> <p>Lee, J. (2005). Articulating ako: Māori pedagogy in New Zealand education. Proceedings of the Diversity Conference 2004, International Journal of Diversity, UCLA, LA, 6-9 July 2004, 563-571, 2004.</p> <p>Lee, J. (2003). Ngā Tohutohu: A pūrākau approach to Māori teacher narratives. Teacher Education Forum of Aotearoa New Zealand (TEFANZ) Conference Proceedings, Massey University, 2002.</p>
Other forms of dissemination (reports for clients, technical reports, popular press, etc)
<p>Lee-Morgan, J. (2018) Taikākā: Learning and teaching strategies to optimise academic achievement in a Māori-medium Initial Teacher Education programme. Wellington: Ako Aotearoa</p> <p>Lee-Morgan, J. & M. Hetaraka. (2018) Taikākā: Teaching strategies to improve academic learning for Māori-medium ITE.</p> <p>Pihama, L., Lee, J., Campbell, D., Greensill, H., Te Nana, R. (2015). Tiakina Te Pā Harakeke: Traditional views and practices of childrearing, Report to Ngā Pae o Te Maramatanga. Hamilton: University of Waikato.</p> <p>Pihama, L., R. Mataamua, J. Tipene, K. Ngāpō, S. Tiakiwai, W. Edwards, J. Lee, M. Hohepa, TK. Maxwell, H. Skipper. (2015). Te Matataua o Te Reo: A national research agenda for the regeneration and revitalisation of Te Reo Māori, Report to He Puna Whakarauora, Te Taura Whiri i Te Reo. Hamilton: Te Kotahi Research Institute.</p> <p>Hutchings, J., Barnes, A., Taupo, K., Bright, N., Pihama, L., Lee, J., (2012) Kia Puāwaitia Ngā Tūmanako, Wellington, NZCER</p> <p>Lee, J., Pihama, L., Smith, L., (2012) Marae-ā-kura: Teaching, learning and living as Māori, Set, Wellington, NZCER.</p> <p>Lee, J. (2011). Participation in early childhood education in Kaikohe: An intensive community participation project: A report for Ministry of Education. Kawakawa, New Zealand: Ngāti Hine Health Trust.</p> <p>Pihama, L. & Lee, J. (2010). He kākano i ruia mai i Rangiatea: Māori whānau stories of neonatal intensive care units. Funded by Ngā Pae o te Māramatanga. Auckland, Māori and Indigenous Analysis and Rautaki Ltd.</p>

Lee, J., Pihama, L., & McRoberts, H. (2009). The entry and retention of Māori student's in the Faculty of Education, University of Auckland. Initial Teacher Education and Social Work programmes: A report for The University of Auckland. Auckland, New Zealand: Rautaki Ltd.

PART 2

2b. Previous research work

Repeat and expand box below as necessary.

Research title: Te Manaaki o te Marae: The role of marae in the Auckland Housing Crisis

Principal outcome: Provided useful baseline data and models about the Manaaki Tāngata

Programme, Te Puea Memorial Marae; marae-based housing typologies and associated financing models; policy and practice directives for marae-based housing and marae-based transitional housing providers.

Principal end-user and contact: Marae, Iwi, Auckland City Council, BBHTC NSC, BRANZ, TPK, Housing NZ, Social Service providers and government agencies, policy analysts. Contact: Dr Jessica Hutchings (BBHTC, NSC)

Research title: Te Matarere: The future of te reo Maori in Waikato-Tainui to 2038.

Principal outcome: Baseline and predictive cohort modelling of Māori language speakers in Waikato-Tainui region; current and future innovations in Waikato-Tainui, education, technology and community; recommendations for future growth of te reo Maori in this region

Principal end-user and contact: Te Mātāwai, Te Taura Whiri i te Reo; iwi, hapu, whanau, education, community, government agencies and service providers. Contact: Jonathan Kilgour, Te Mātāwai.

Research title: Tukua ki te ao: Te normalisation of te reo Maori in organisations. Te Taura Whiri i te Reo Māori (Māori Language Commission)

Principal outcome: case studies of successful normalisation of te reo in corporate, local body and secondary schools, identification of success indicators

Principal end-user and contact: Te Taura Whiri i te Reo Māori, Te Mātāwai, corporate sector, central and local government agencies and service providers, education, mainstream organisations. Contact: Roimata Taura, Te Taura Whiri i te Reo Māori.

2c. Describe the commercial, social or environmental impact of your previous research work

Please delete and begin typing here. Provide no more than five examples relevant to your proposal.

My research contributes impacts across social, cultural, educational, wellbeing and housing domains through specifically contributing innovative thinking about Mātauranga Māori at the interface with contemporary issue that face Māori whanau and wider New Zealand society across all the sectors that we engage. An example of impact of the 'Te Manaaki o te Marae' project includes proposed marae-based training of government social service agencies at Te Puea Memorial Marae (TPMM), the proposed two storey build of accommodation for homeless whanau (for 50 people) at Te Puea Memorial Marae, the accreditation TPMM as the first marae-based Transitional Housing Provider; other marae developing long-term housing interventions based on marae-based housing typologies created in our research.

2d. Demonstration of relationships with end-users

Please delete and begin typing here. Provide no more than five examples relevant to your proposal.

Te Manaaki o te Marae project: engaged five key marae in the Auckland region, this included the development of strong relationships with people of the marae from Board of Trustees level to whanau members. Other endusers include Tamaki marae and wider urban marae throughout NZ, government agencies such as HNZC, TPK, MSD and Ministry of Housing and Urban Development, Te Mataphi.

Rau Hoskins

New Zealand RS&T Curriculum Vitae Template

1a. Personal details				
Full name	<i>Title</i> Mr	<i>First name</i> Rau	<i>Second name(s)</i>	<i>Family name</i> Hoskins
Present position		Unitec Lecturer in Architecture, Coordinator of Te Hononga, Chairperson Te Matapihi		
Organisation/Employer		Unitec NZ		
Contact Address		7 Hikurangi Street Te Atatu Peninsula, Auckland		
			Post code	0610
Work telephone	09 3766 975	Mobile	021 658 019	
Email	rau@designtribe.co.nz			

1b. Academic qualifications
1997 M.Arch (hons) Architecture, University of Auckland
1990 B.Arch Architecture, University of Auckland

1c. Professional positions held
2010 to present Chairperson Te Matapihi he Tirohanga mo te Iwi Trust 2002
to present Coordinator Te Hononga, Unitec NZ
1999 to present Lecturer, Unitec NZ
1994 to present director, design TRIBE architects

1d. Present research/professional speciality
Urban and Rural Papakāinga, the integration of Mana whenua identity and aspirations in the urban environment

1e. Total years research experience	17 years
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1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)
2015 New Zealand Institute of Architects President's award for services to Architecture – Venice Architecture Biennale
2012 New Zealand Institute of Architects President's award for services to Architecture – Whare Māori Television Series
2012 Aotearoa Film and Television Association (AFTA) Award for "Whare Maori" television series – Best Information Programme
2008 NZIA National Award for Alfriston College with Warren and Mahoney

1g. Total number of peer reviewed publications and patents	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	1	7	2	

PART 2

2a. Research publications and dissemination

*Expand/reduce the following table as needed, listing publications relevant to your proposal. List in reverse date order. **Bold** your name in lists of authors.*

Peer-reviewed journal articles
<p>Hoskins, R., (2017) Bringing the Soul, The expression of Ngāi Tūāhuriri / Ngāi Tahu cultural identity in the Christchurch rebuild. Bulletin, Winter 2017 Christchurch Art Gallery</p> <p>Awatere, S., Pauling, C., Rolleston, S., Hoskins, R., and Wixon, K. (2008). Tu Whare Ora - Building Capacity for Māori Driven Design in Sustainable Settlement Development. Landcare Research Ltd for Nga Pae o Te Maramatanga</p>
Peer reviewed books, book chapters, books edited
<p>Hoskins, R. V. (2013). 'Nano Whare': Past meets future in a new model for Māori Housing. In Bierre, S., Howden-Chapman, P. & Early, L. (Eds.), HOMES PEOPLE CAN AFFORD: How to improve housing in New Zealand (pp.108-114). Wellington, New Zealand : Steele Roberts Aotearoa.</p> <p>Hoskins, R. V. (2012). 'Māori Cultural Sustainability in the 21st Century' - Changing patterns of Marae Development and Use in Aotearoa / New Zealand. In Kopeke, W. & Schmelz, B. (Eds.), The House Rauru – Masterpiece of the Māori (Journal of the Hamburg Museum of Ethnology, Neue Folg 44 I 2012 ed): (pp.353-366). Hamburg, Germany: Hamburg Museum of Ethnology : Museum fur Völkerkunde Hamburg.</p> <p>Hoskins, R. V. (2014). Te Aranga Māori Design Principles and the Auckland Urban Design Panel. In A. Wood (Eds.), INTER-VIEW: The Contribution of Urban Design Panels to Auckland's Story (pp.168). Auckland, New Zealand : Beatnik Publishing.</p> <p>Hoskins, R., Wagner, C., and Wilson, C. (2009). Te Whaiti: Rebuilding a Rural Maori Community. <i>Ho, G., Mathew, K., and Anda, M.</i>, pp.197-205</p> <p>Pelling, N., Hoskins, R., and Wagner, C. (2009). Te Hononga: Enhancing Learner Knowledge of Maori Architecture. e-book,</p> <p>Hoskins, R. (2008). 'Our faces in our places': Cultural landscapes - Māori and the Urban Environment. Public Health Advisory Committee (ed.). Re-thinking urban environments and health. Wellington, New Zealand. pp 27-34</p> <p>Hoskins, R. (2002). 'Ki te Hau Kāinga' - Māori Housing Design Guide, Housing New Zealand Corporation</p>

Refereed conference proceedings
<p>Hoskins, R. V. (2009). Nga Whare Uku: Maori Community responses to earth fibre housing. In Ho, G.E., Mathew, K., and Anda, M. (Eds). Sustainability of Indigenous Communities in Australia: Selected Papers from the National Conference Held at Murdoch University, Perth, Western Australia, 12-14 July 2006. Perth: Murdoch University.</p> <p>Wagner, C., Hoskins, R., and Wilson, C. (2007). Design collaboration with a Maori community. Zehner, R., and Reidsema, C. (Eds). Proceedings of ConnectED 2007 International Conference on Design Education. Sydney, University of New South Wales. CD Rom</p>
Patents
Other forms of dissemination (reports for clients, technical reports, popular press, etc)
<p>Exhibition – Venice Architecture Biennale</p> <p>Hoskins, R. V. (Maori design and cultural consultant), Mitchell, D. (Creative Director), Stout, J. (Team member), Pearson, R. (Exhibition consultant), & Mitchell, J. (Installation). (2014). Last Loneliest Loveliest, The New Zealand Pavilion: New Zealand Institute of Architects 14th International Architecture Exhibition La Biennale di Venezia. Palazzo Pisani, Santa Marina, Calle delle Erbe, Cannaregio: Venice, Italy.</p> <p>Television Series – Whare Māori</p> <p>Hoskins, R. V., Douglas, M., and McKenzie, K. (2011). 'Whare Māori' (Presenter, co researcher, co writer). 13 Part TV series focusing on Māori architecture, Māori Television, New Zealand. First screening 8th May 2011.</p> <p>Arifact / object / Craftwork – Earthfloor Whare Restoration</p> <p>Hoskins, R. V., Wilson, C., Withers, B., Te Hononga Studio, Heritage New Zealand, & Te Pōti Whānau. (2014-17). Restoration of the last full size earth floor wharepuni in Aotearoa with the assistance of the Te Pōti Marae whanau and Heritage New Zealand. Pipiriki, Whanganui River, New Zealand: Te Pōti Marae, Pipiriki</p> <p>Design Guide – Hoskins R., Te Aranga Design Principles in Auckland Council Design Guide (web based) Developed with Tāmaki Mana whenua from 2013 – 15 and now applied to a large number of urban design projects across Tāmaki.</p>

2b. Previous research work

Repeat and expand box below as necessary.

Research title: Ki te Hau Kāinga – Māori Housing Design Guide for Housing New Zealand Corporation and papakāinga projects in Mōkai, Turangi, Pūkaki, Whareponga, Glen Innes / Tāmaki Regeneration Company and Parihaka Papakāinga.

Principal outcome: Informing the design of Māori state housing and papakāinga developments from 2002 to present.

Principal end-user and contact: Multiple Māori end users – eg. Turangitukua Trust – Tina Porou

2c. Describe the commercial, social or environmental impact of your previous research work

My research and design work within Māori communities over the last twenty years has focussed on holistically enhancing Māori experiences of their built environments from papakāinga and educational environments to marae and Māori cultural landscapes.

2d. Demonstration of relationships with end-users

Relationships with Māori end users arising from research and professional project work consists of connections developed with whānau and hapū in the design of over 10 Papakāinga developments and over 30 Marae projects across the motu and 10s of Mana whenua cultural landscape projects in Tāmaki.

Rihi Te Nana

New Zealand RS&T Curriculum Vitae Template

PART 1

1a. Personal details			
Full name	Ms	Rihi	Te Nana
Iwi affiliations	Ngāti Haua, Ngapuhi, Ngati Maniapoto, Te Atihaunui a Paparangi		
Present position	Researcher		
Organisation/Employer	Unitec Institute of Technology		
Contact Address	Private Bag 92025		
	Victoria Street West		
	Auckland	Post code	1142
Work telephone	09 892 7934	Mobile	021 889 682
Email	rihitenana1@gmail.com		

1b. Academic qualifications	
2016	Masters in Professional Studies in Education
2007	Diploma in Psychosynthesis Counselling, Psychosynthesis Institute Auckland
1985	Bachelor of Education, double major in Education and Māori. Massey University
1984	Teachers Training Certificate, Palmerston North Teachers College

1c. Professional positions held	
July 2016 -	He Oranga Ngakau Research and Development of a Maori Trauma Informed Care Framework Te Kotahi Research Institute, Waikato University.
July 2016 -	Koi te Mata Punenga Exploration of Māori Emotions , Te Kotahi Research Institute, Waikato University.
October 2016-	Literature Review A Cultural Appreciation of Te Awa Tipua , Te Atawhai o Te Ao Research Unit, Whanganui

Nov 2015	Completed Organizational analysis What Ever It Takes Ltd Home Based Rehabilitation Service
2013 – 2015	Relationships Aotearoa – Strategic Advisor Maori Services Development
2012 –2015	Historical Trauma Research: The Impact of Sexual Violence on Maori
2012 –2014	Research: Tiakina Te Pa Harakeke – Traditional Child Rearing Practices
2011 – 2012	RSW Area Manager for Te Taitokerau Region (Dargaville to Kaitaia)
2011 – 2012	National Manager for Maori Response EQ Team Canterbury
2008 – 2013	RSW National Manager Maori Development 2005- Current RSW Counsellor and Supervisor
2006 - 2008	Te Aranga - The Development of a National Maori Cultural Landscape Strategy
2006	Literature Review of Maori Education (Early Childhood, Primary, Secondary and Tertiary) from 1996 – 2006. MAIA Ltd
2005 – 2006	Research/Evaluation of Ministry of Education Promoting Participation Project of Maori Families in the Early Childhood Education Sector – Centre for Child and Family Policy Research, Auckland University
2005 – 2006	Teaching and Learning Research Initiative for Maori Teachers - Indigenous Research Institute, Auckland University
2004	Development of A Pre Entry Adult Literacy and Numeracy Programme towards a Certificate in Small Business Management for Kawau Ltd
2004 – 2005	Curriculum Development Framework for Whare Wananga - Indigenous Research Institute, Auckland University
2004	National Research of Services to Kaumatua and Kuia that are currently be delivered by Maori Providers - Centre for Child and Family Policy Research, Auckland University

1d. Present research/professional speciality

- Historical and Intergenerational Trauma within whānau, hapu, iwi context
- Therapeutic rehabilitation
- Kaupapa Māori Research
- Kaupapa Māori therapeutic frameworks
- Cultural supervision

1e. Total years research experience	12
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1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

2010 – current Chairperson What Ever It Takes Trust Homebased Rehabilitation Service

Current Member of NZAC

1g. Total number of <i>peer reviewed</i> publications and patents	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	5	1		

2a. Research publications and dissemination

Peer-reviewed journal articles

Hoskins, R., **Te Nana, R.**, Rhodes, P., Guy, P., & Sage, C. (2002). Ki te Hau Kainga: New Perspectives on Maori Housing Solutions. A Design Guide Prepared for Housing New Zealand Corporation.

Pihama, L., **Te Nana, R.**, Reynolds, P., Smith, C., Reid, J., Smith, L.T (2015) Positioning historical trauma theory within Aotearoa New Zealand in *Alternative: An International Journal of Indigenous Peoples*, Auckland: Ngā Pae o Te Māramatanga.

Pihama, L., **Te Nana, R.**, Cameron, N., Smith, C., Reid, J., Southey, K., (2016) Māori cultural definitions of sexual violence in Sexual Abuse in Australia and New Zealand Vol. 7, No. 1, . ANZATSA Victoria (pp43-51).

Pihama, L., Smith, L.T, Evans-Campbell, T., Kohu-Morgan, H., Cameron, N., Mataki, T., **Te Nana, R.**, Skipper, H., Southey, K., (2017) Investigating Māori approaches to trauma informed care in *Journal of Indigenous Wellbeing, Te Mauri – Pimatisiwin*. Wellington Te Rau Matatini (pp19-31).

Greensill, H., Manuirirangi, H., Pihama, L., Mahealani Miller, J., Lee-Morgan, J., Campbell, D., & **Te Nana, R.** (2017). He maimoa i ngā whakatupuranga anamata: Ko te mātauranga taketake o ngā tūpuna me te whakarea tamariki. *Te Kōtihitihi Ngā Tuhinga Reo Māori*, 4, 91-102.

Peer reviewed books, book chapters, books edited
Lee-Morgan, J., Hoskins, R. Te Nana, R. , Rua, M., Knox, W., in collaboration with Te Puea Marae (2018) Ahakoa to Aha, mahinga te mahi, In service to homeless whānau in Tāmaki Makaurau. Auckland, Te Puea Marae
Refereed conference proceedings
Patents
Other forms of dissemination (reports for clients, technical reports, popular press, etc)
Pihama, L., Lee, J., Campbell, D., Greensill, H., Te Nana, R. (2015) 'Tiakina Te Pā Harakeke: Traditional views and practices of childrearing', Report to Ngā Pae o Te Maramatanga, Hamilton: University of Waikato

2b. Previous research work

Repeat and expand box below as necessary.

Research title:

Principal outcome:

Principal end-user and contact:

2c. Describe the commercial, social or environmental impact of your previous research work

Please delete and begin typing here. Provide no more than five examples relevant to your proposal.

2d. Demonstration of relationships with end-users

Please delete and begin typing here. Provide no more than five examples relevant to your proposal.

Irene Kereama-Royal

New Zealand RS&T Curriculum Vitae Template

PART 1

1a. Personal details			
Full name	Ms	Irene	Kereama-Royal
Iwi affiliations	Ngāti Raukawa ki te Tonga, Ngāpuhi, Ngāti Tūwharetoa, Parehauraki		
Present position	Research Partner - Rangahau Māori and Development		
Organisation/Employer	Unitec Institute of Technology		
Contact Address	Private Bag 92025		
	Victoria Street West		
	Auckland	Post code	1142
Work telephone	09 892 8474	Mobile	021 501 249
Email	ikereamaroyal@unitec.ac.nz		

1b. Academic qualifications	
2014	Masters of Māori, Pacific and Indigenous Law (1 st Class Hons), University of Waikato
2010	NZ Certificate of Company Directorship, Institute of Directors, Wellington
2006	Legal Proficiency Certificate, Institute of Legal Studies, Hamilton
2005	Bachelor of Laws, University of Waikato

1c. Professional positions held	
2016 – Current	Research Partner - Rangahau Māori and Development, Unitec Institute of Technology
2012 – 2016	Principal Consultant and Managing Director, Te Whaiāo Group
2011 – 2012	Innovation Manager Māori Research, AgResearch
2009 – 2011	General Manager (Iwi Tribal Office), Tūhoe Waikaremoana Trust Board

2008 – 2009	Director Māori Partnerships, Housing NZ Corporation
2007 – 2008	Registrar (Treaty Settlement Claims), Waitangi Tribunal
2006 – 2007	Investment Manager (Māori Research), FoRST
2005 – 2006	Innovation Manager (Māori Research), TechNZ
2002 – 2006	Business Manager (Māori Research), HortResearch
2000 – 2002	Environment & Treaty Claims Manager (Tribal Office), Waikato-Tainui
1997 – 1999	Environment Solicitor (Iwi Tribal Office), Huakina Development Trust

1d. Present research/professional speciality

- Hapu Development & Planning
- Māori Land & Marine Asset Development & Planning
- Kaupapa Māori Research
- Indigenous Health Promotion / Indigenous Perspectives in Gene Editing Technologies
- Māori Land Law, Resource Management Law, Treaty Settlements Law
- Commercialisation of bioactives
- Negotiation & facilitation of IP agreements, MOU relationship agreements, commercial partnering agreements

1e. Total years research experience

20

1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

Establishment Board Member	Tōku Māpihi Maurea Kura Kaupapa Māori, Hamilton
Establishment Board Member	Ngā Taiātea Wharekura, Hamilton
Chair	Queen Victoria Old Girls Association, Auckland
Iwi Research Manager	Tūwhituaroa Hapū Aquaculture Research Committee, Hauraki Gulf
NGO Patient Advocacy	Breast Cancer Aotearoa Coalition Executive Board Member, Auckland
Expert Panel Member	Royal Society Te Apārangi – Gene Editing Technologies Panel Member, Wellington
Māori Reference Panel	Genomics Aotearoa, Māori Variome Research
Ahuwhenua Trustee	Te Whānau A Haunui Ahuwhenua Trust, Hauraki Gulf

PSGE Trustee	Ngāti Whanaunga Rūnanga PSGE Trust, Hauraki Gulf
Mandated Negotiator	Te Whānau A Haunui Marine & Coastal Area Customary Title Claims
Commercial Venture Negotiator	Te Whānau A Haunui Commercial Aquaculture Venture Negotiator

1g. Total number of <i>peer reviewed</i> publications and patents	Journal articles	Books, book chapters, books edited	Conference proceedings	Other
	1		2	6

2a. Research publications and dissemination
Peer-reviewed journal articles
Wilcox, P.L; Charity, J.A; Roberts, M.R; Tuawhare, S; Tipene-Matua, B; Kereama-Royal, I; Hunter, R; Kani, H.M and Moke-Delaney, P. 2008: A values based process for cross cultural dialogue between scientists and Maori. Journal of the Royal Society of New Zealand, 38(3), 215-227.
Peer reviewed books, book chapters, books edited
Refereed conference proceedings
<p>Towards a variome resource for genomic medicine in Aotearoa/New Zealand Māori</p> <p><u>Wilcox, P.L.</u>, Flavell, T., Watson, H., Harre-Hindmarsh, J., Hudson, M., Kereama-Royal, I., Wihongi, H., Russell, K., Sporle, A., Rolleston, A., Robertson, S.R.</p> <p><i>Queenstown Research Week, Te Whanaketanga Pūtaiao Māori Summit. Queenstown New Zealand. August 2019.</i></p> <p>Engaging Indigenous Communities in Forest Biotechnologies: Lessons From Aotearoa New Zealand.</p> <p><u>Wilcox, P.L.</u> Hudson, M., Kereama-Royal, I., Prime, K.</p> <p><i>International Union of Forest Research Organizations 2019 Tree Biotechnology Meeting, Forests, Technology & Society. Raleigh, Northern Carolina, United States of America. June 2019.</i></p>
Patents

Other forms of dissemination (reports for clients, technical reports, popular press, etc)

2018: Discussion paper and companion technical paper exploring the potential uses of gene editing for the primary industries in Aotearoa.

2017: Discussion paper and companion technical paper exploring the potential uses of gene editing in healthcare in Aotearoa.

2017: Discussion paper and companion technical paper exploring the use of gene editing for pest control in Aotearoa.

(The Royal Society Te Apārangi convened a multidisciplinary panel to consider the social, cultural, legal and economic implications of gene editing in Aotearoa New Zealand, incorporating Māori perspectives and broader cultural contexts.)

2b. Previous research work

Research title: Te Aroturuki: Proposed model to improve dialogue between Māori and scientists around controversial technologies.

Principal outcome: Publication of peer reviewed Journal article and toolkit (web-based).

Principal end-user and contact: Mana whenua groups whose region includes field trial sites where genetic modification or gene editing research is conducted in contained environments or labs. **Contact:** Scion Research Institute or Plant and Food Research Institute.

2c. Describe the commercial, social or environmental impact of your previous research work

Māori and science Institutes are engaged in more dialogue about controversial technologies since 2008 and can reference Te Aroturuki as the only toolkit and resource developed for this particular area of research.

2d. Demonstration of relationships with end-users

Involvement with Te Aroturuki has led to appointments with Advisory Groups and Panels involving Māori and genomic research, Maori and gene editing technologies and Māori and genetic modification.

Jacqueline Paul

Curriculum Vitae

Jacqueline Paul
(BLA)
Landscape Architect

Mobile: +642102946093

Work: +649 921 9999 ext. 9622

Jacquelinepaul@aut.ac.nz

Jacqueline@innonative.co.nz

(Ngapuhi, Ngati Tuwharetoa, and Ngati Kahungunu ki Heretaunga)

Personal Statement

Maori landscape architect, lecturer, researcher and a current member of the Auckland Youth Advisory Panel. Vast experience ranging from research, policy and design. Recently completed a dissertation, which discusses how papakāinga (traditional settlement) housing that incorporates Māori knowledge, principles, and practices can contribute to medium-density housing in cities. Proactive advocate for better youth inclusiveness in the development of planning the future of our cities and communities

Very articulate and hardworking person - ambitious. Aims to take every little step into pursuing dreams and very passionate towards influencing positive changes within diverse communities. Efficient time management and being well-organized in order to balance study, work, and family. Striving towards completing a Masters in City/Urban Planning or Landscape Architecture in the U.S and working towards a PhD in Auckland.

Personal Qualities

Determined
Ambitious
Self-motivated
Disciplined

Skills

Strong attention to detail
Flexible and Punctual
Excellent Communication and Social Skills
Great Customer Service
Landscape Assessment
Proficient in Vectorworks
Proficient in Microsoft Office
Proficient in Adobe Indesign and Photoshop
Governance and Decision Making

Interests

Spending time with family
Travelling
Research & Policy Advocacy

Community Activism
Advocacy for youth voice in decision-making and governance
Advocacy for Maori representation
Advocacy for vulnerable and disadvantaged communities

Experience

Researcher at Ngā Wai a Te Tūī, Māori & Indigenous Research Centre and Lecturer at the School of Architecture, Unitec Institute of Technology.

PRESENT, AUCKLAND.

Candidate for the Papakura Local Board Local Elections 2019, Labour Party NZ.

PRESENT, AUCKLAND.

Appointed Expert Advisory Panel member for State Services Commission NZ

PRESENT, WELLINGTON.

Tutor at MAU Academy for MAU Studio

PRESENT, AUCKLAND.

Director and Social Entrepreneur of innoative Ltd.

JULY 2018 - PRESENT, AUCKLAND.

Co-founder of a social enterprise of young leaders and creatives building a movement to champion positive change in communities.

Awarded 2018 Ministry of Youth, Young Enterprise Scheme fund.

Researcher at Te Ara Poutama AUT University | Building Research Association NZ

APRIL 2017 - Sept 2019, AUCKLAND.

2017-2019 Auckland Youth Advisory Panel Member - Auckland Council

PRESENT, AUCKLAND CITY

2017 Design Assistant at Outdoor Creations

JULY 2017 - JAN 2019, AUCKLAND CITY

Design assistant working on public/private projects in residential and commercial site planning and design.

Manager at Auckland Landscape Supplies

MAY 2015 - DEC 2018, TAKANINI, AUCKLAND.

Manager in operations, accounts and administration.

2018 Youth Assembly Delegate at the United Nations in New York

FEBRUARY 2018

Contracted by the Ministry of Business, Innovation & Employment Building Research Association NZ - National Science Challenge: Building better homes towns and cities

Vietnam National University of Forestry/ Intern in the



Early Career Research Support PhD/Doctorate for PBRF Portfolio

Background

Early Career Researchers and research diversity in general are increasingly important priorities in research environments such as TEOs, CoREs, CREs and the Royal Society.

In order to grow capacity in these areas, we need to be proactively supporting them.

Support toward Academic qualifications are the purview of Professional Development at Unitec and this guideline outlines an instance where support within clear parameters could, under certain circumstances, come from the research office. This instance would be where a person is certain to complete a PhD/Doctorate in a period leading toward a PBRF review.

Eligibility

The applicant must be a full time, permanent tenure Unitec staff member, have a demonstrably serious research track record, that with the addition of a completed PhD, could be determined by the URC to constitute a rated portfolio.

Priorities

The Early Career Research Support – PhD/Doctorate toward PBRF fund is an integral component of a range of initiatives designed to support research and enterprise at Unitec. It will invest in Early Career Researchers who's work are aligned with the Unitec Research Strategy, Te Noho Kotahitanga and Unitec's values. Proposals can align with the following priorities:

- 1. Productivity.** Contributes to the development of a rated PBRF portfolio in the next PBRF round
- 2. Impact.** PhD completion and PBRF rating has the potential to continue contributing to Unitec's research priorities as outlined in the Research Strategy.

Process

The URC will take applications any time and consider them at the URC meeting following submission of the application. To meet the monthly deadline, applications must go to the secretary of the committee at least seven working days before the meeting. It is expected that the average application will be the cost of one semesters fees or less than \$3500, whichever is the smaller amount. NB – Prospective applicants are encouraged to communicate their intention to apply to Research Partners as early as possible for budgeting purposes. The URC will consider the application in the context of the applicants research productivity in ROMS and their Individual Research Plan. This consideration will be to determine if the addition of a completed PhD or Doctorate will assist in producing a rated PBRF portfolio. The decision of the URC will be final.

Terms of Reference

Applications must meet all of the priorities outlined above. In addition:

- the proposed use of funding sought is be for one semester PhD/Doctorate fees only;
- Successful applicants must agree to present a summary of their supported work at Unitec's annual Research Symposium and agree to articles on the relevant work being published on Unitec's Research Blog;
- Receipt of past internal funding, whether central or faculty based, will be declared and will have been appropriately accounted for;

- If the request is successful, all finances and administration must be handled by Tūāpapa Rangahau;

Declarations

1. I am a member of the Early Career Researcher forum

Yes ☐ No ☐

2. I am undertaking a PhD/Doctorate at;

The topic is;

3. The cost of PhD/Doctorate fees for one semester is;

4.

5. I submitted a PBRF portfolio for the 2018 round;

Yes ☐ No ☐

6. I have attached my approved Individual Research Plan outlining a pathway toward submitting a PBRF portfolio for the 2024 round;

Yes ☐ No ☐

7. I have retrieved a report of my ROMS account from the Research Advisor, attached;

Yes ☐ No ☐

8. My Head of School, Academic Programme Manager, Research Leader and Research Partner are aware of this application;

Yes ☐ No ☐

9. I have an ORCID number;

Number

10. Research grants I have received in the last 5 years are;

Unitec – Amount Grant/Funder

External - Amount Grant/Funder

Summary of support request

11.Amount requested (maximum \$3500 or relevant fees for one semester, whichever is the lesser amount)

12. Proof of fees amount attached

Yes ☐

No ☐

Declarations

Declaration (Early Career Researcher)

I declare that to the best of my knowledge the information I have provided is true and correct; that my PhD/Doctorate will be completed and included in my next PBRF Evidence Portfolio; and that I hold a permanent 0.1 FTE position at Unitec. I acknowledge that Tūāpapa Rangahau will be monitoring my progress on the project and the expenditure of my grant if I am allocated funding.

Signed: _____

Dated: _____

Declaration (Early Career Researcher's Head of School)

I have read and support this application and, if funded, will ensure that adequate time is given to meaningfully utilise the support proposed and that there are no impediments to a successful outcome.

Signed: _____

Dated: _____

Email your completed, fully signed Application Form to amunir@unitec.ac.nz

You will be advised, in writing, of the outcome of your application following the Unitec Research Committee's meeting subsequent to your application.

For Information

To	Unitec Research Committee	From	Marcus Williams
Title	Research Overheads	Date	12 th September 2019

Recommendation/s

That the Unitec Research Committee receive the Senior Academic Leadership Team decision on the disbursement of research overheads.

Purpose

To report to the Committee decisions by SALT on an alteration of the Management of External Research Funding Procedure.

Background

In 2018, the Management of External Research Funding Procedure was ratified by Academic Board. Several areas of detail were not attended to fully and were identified by two Heads of Schools in 2019. These are; disbursement to other researchers, other than the Principal Investigator and disbursement where staff are both in a centre and a school.

The ensuing decision is described in the PowerPoint attached with the agenda.

Next Steps

Post the reviewed procedure on The Nest.

Attachments

PowerPoint explaining the process alteration
Management of External Research Funding Procedure

Contributors

The Senior Academic Leadership Team



Research Overheads

Marcus Williams
Director of Research and
Enterprise
Tūāpapa Rangahau
Unitec

Overheads from Grants

- 50% Tūāpapa Rangahau and Unitec “centre”**
- 30% Host School or Research Centre**
- 10% Contingency for Project**
- 10% Researcher’s**

Two things need resolving with this current procedure (last slide);

1 - Only recognises the Principal Investigator's school

(project leader, is from one school or centre, there may be other staff from other schools on the project making considerable contributions)

NB – There is a similar problem with reporting ERI performance.

2 - It does not allow for differentiation between schools and centres

(who gets what share?)

The latter is a problem when a centre is hosted in a school. For example;

- **Applied Molecular Solutions**
- **Centre for Computational Intelligence and Cybersecurity**
- **Environmental Solutions Research Centre**

Both institutional frameworks (schools and centres) need to be incentivised toward the ERI goal

School share of overheads where multi school contributors exist in a project

Principal Investigators are usually the initiator, leader, manager, primary expert and the most senior researcher. The substantive share of the 30% school share of overheads should go to the school the PI works in.

NB - Sometimes there is a co-PI, in which case the shares would be negotiated.

Associate Researchers play roles of greatly varying significance on a funded project.

Solution

A negotiated share is arrived at in the development phases of the funding application. Such an agreement would most effectively be managed by the Tūāpapa Rangahau Operations Manager, who oversees the budget of a grant bid while it is in development.

NB – The same percentage breakdown of overheads, could be used to allocate performance data in ERI reporting.

Overheads where a centre is in a school

The Director of a Research Centre, will mostly also work in a school.

Principal Investigators and Associate Researchers on projects will also mostly work in schools. These might be a variety of schools.

So why should the overhead go only to the relevant centre or school?

Solution

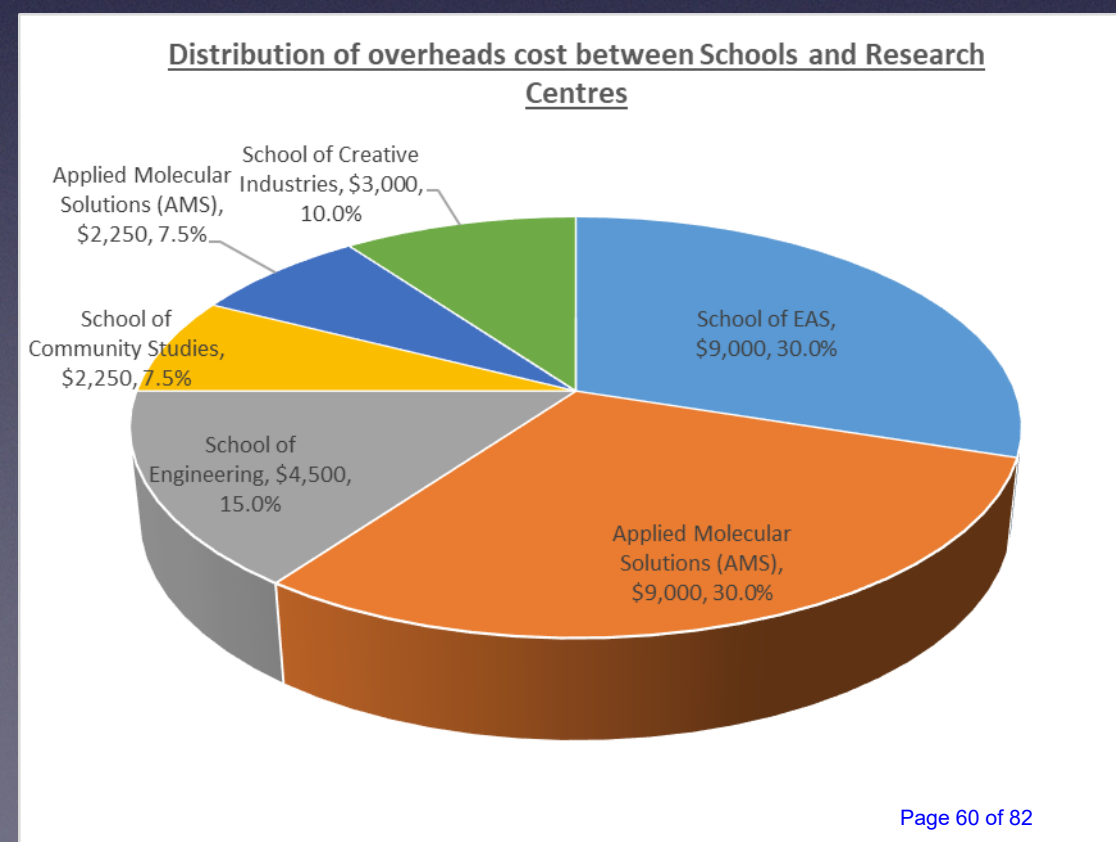
For each project, where Principal Investigators and Associate Researchers are in schools and centres, 50% of their share of the overheads (already negotiated) will go to the centre and 50% will go to the school. NB – This could be negotiated differently in the development phases of the grant application.

Example: Let's say we have a funded project named **The Impact of Urban Cycleways looking at triple bottom line perspectives**. The PI for this project is Dan Blanchon who is the director of Applied Molecular Solutions (AMS). The grant won for this project is \$1,000,000. The overheads for this project is \$100,000. This project has the following PI's and AI's:





- PI: Dan Blanchon (School of EAS/AMS)
- AI 1: Asher Lewis (School of Engineering)
- AI 2: Arun Deo (School of Community Studies/AMS)
- AI 3: Marcus Williams (School of Creative Industries)












The project's negotiated overhead distribution between the PI's and the AI's follows a negotiated 60%-15%-15%-10% model . This is how the overheads will be distributed:

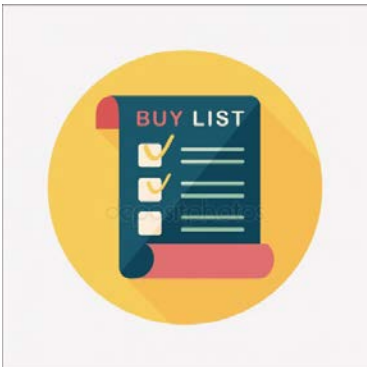


Out of the overheads, that goes to School/Centre, the money is allocated as follows:	Project Negotiated Allocation	Total Overhead Allocation	School Share (50%)	Centre Share (50%)
PI: Dan Blanchon (School of EAS/AMS)	60%	\$18,000	\$9,000	\$9,000
AI 1: Asher Lewis (School of Engineering)	15%	\$4,500	\$4,500	\$0
AI 2: Arun Deo (School of Community Studies/AMS)	15%	\$4,500	\$2,250	\$2,250
AI 3: Marcus Williams (School of Creative Industries)	10%	\$3,000	\$3,000	\$0
Total		\$30,000	\$18,750	\$11,250



Guideline: The utilisation of external Research & Enterprise funding at Unitec

	The use of external funding at Unitec (where does the money go?)	Implementation (how do the financial mechanics work?)	Approvals required (who decides?)
<p>Funding for Project staff time</p>  <p><small>*This section relates to existing Unitec academic staff only, and excludes other project staff who are employed specifically for the project, typically on a fixed term employment basis.</small></p> <p><small>** This section only refers to the use of direct salary costs in the project budget. Direct salary costs are the actual salary costs and excludes Kiwisaver, ACC and any funding for indirect project costs that may have been combined with direct salary costs in the project budget. For example, in instances where a consultancy rate is used in the project budget (see Indirect costs section below).</small></p>	<p>When an existing Unitec staff member* has external funding for a portion of their time on a research or enterprise project, the funding available for their direct salary costs** will be managed internally depending on:</p> <ol style="list-style-type: none"> Whether staff member is < 1 FTE or =1FTE If <1FTE, whether staff member wishes to increase their FTE Whether the work will be conducted within current research allocation time or in addition to it Whether the funding available for direct salary costs is <\$500 <p>In every case, as a general rule no external funding will be paid to the staff member as additional salary (except where the staff member is <1FTE and wishes to increase their FTE for the project).</p> <p>Where the research is conducted <u>within</u> existing research allocation:</p> <p>In cases where the staff member can undertake the project within their existing research allocation, direct salary costs will be treated as an Indirect Project Cost. Described in detail over the page, it will be dispersed as follows:</p> <div style="border: 1px solid black; padding: 5px; background-color: #e6f2ff;"> <p>50% Tūāpapa Rangahau (Unitec wide indirect costs) 30% Host School or Unit 10% Contingency for Project 10% Researcher's external research incentive fund.</p> </div> <p>Where the research is conducted <u>in addition</u> to any existing research allocation:</p> <p>Where the staff member already has an agreed, complete research load and the research will be conducted in addition to this allocation, then the full <u>direct salary costs</u> (budgeted costs) will be transferred to the staff member's School or Unit.</p> <p>The School/Unit must then use the transferred funds as follows:</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; background-color: #d9ead3; width: 45%;"> <p><1FTE & wishes to increase FTE</p> </div> <div> <p>If the staff member is <1 FTE and wishes to increase their FTE, then the funding will be used to temporarily increase the FTE in that staff member's employment contract (up to 1 FTE), for the duration of the project.</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; background-color: #e6f2ff; width: 45%;"> <p>=1FTE & in addition to research allocation time</p> </div> <div> <p>If the staff member is 1 FTE (or <1FTE and not wishing to increase their FTE) and will deliver the project within additional research allocation time (i.e. current research allocation time has been fully allocated to other projects), the funding will be used by the School for the teaching release/ substitution costs associated with increasing the staff member's research time to deliver the project.</p> </div> </div>	<div style="text-align: center;">  </div> <p>⇒ Where the funding available for <u>direct salary</u> costs is <\$500, then the funding will remain in the project code for reinvestment in the research project or project related dissemination, at the discretion of the PI and Tūāpapa Rangahau Operations Manager. The funds will remain available until 31 Dec of the project's final year.</p> <p>⇒ Where the staff member is <1FTE and wishes to increase their FTE:</p> <p>The School is responsible for implementing the FTE variation of the staff member's employment contract. Once this variation is confirmed. Tūāpapa Rangahau will support managers on details, process and administration. Once the variation is complete, Tūāpapa Rangahau will transfer 100% of the <u>direct</u> salary funding to the School in advance in calendar year instalments, from project commencement, then Jan/Feb each year. This payment schedule ensures the external funds are protected from Unitec's financial year end processes.</p> <p>⇒ Where the staff member is 1 FTE (or <1FTE and not wishing to increase their FTE):</p> <p>The School will secure and commit the staff member's research allocation time for the duration of the project and/or any necessary teaching release/substitution (e.g. via documentation in the staff members' research plan/ADEP and workload allocation). Funding will be withheld until confirmation is received from the Head that the required research time and/or teaching release has been committed. Once confirmation is received, Tūāpapa Rangahau will transfer the agreed salary funding (based on whether research is within or in addition to the existing research allocation) to the School in advance in agreed 6 monthly instalments. The School may use any surplus funds for research purposes only.</p>	<div style="text-align: center;">  </div> <p>At Proposal / Funding application stage:</p> <p>At a minimum, prior to submitting a funding application, the staff member must have agreement from their Head/Line Manager regarding:</p> <ul style="list-style-type: none"> ✓ Approval for their involvement in the proposal and project (if won) ✓ Agreement in principle on whether the project FTE will be considered: <ol style="list-style-type: none"> Within their research allocation time In addition to their research time (and therefore teaching release/substitution will be required) In addition to their current FTE (only if staff member <1 FTE) <p>Ideally, the Unitec Principal Investigator (aka PI or Project Leader) and Tūāpapa Rangahau will also create & circulate a draft 'Project Initiation Budget' (see below).</p> <p>NB – All funding applications exceeding NZ\$1million must have the approval of the executive line manager of the Dean of Research & Enterprise.</p> <div style="text-align: center;">  </div> <p>At Project delivery stage (if funding is awarded):</p> <p>As soon as the funding is awarded, the PI and Tūāpapa Rangahau Operations Manager will create and circulate an internal budget to the relevant Head for their approval (and also the Director of Research if requesting a special circumstance or other deviation from this guideline). This budget will be completed on the 'Project Initiation Budget' template to capture all relevant salary funding and approval details.</p> <p>The Staff member and their Line Manager will formalise and document the agreement regarding research time allocation and/or teaching release into the staff member's Research Plan, ADEP and workload calculations for the duration of the project.</p>

	The use of external funding at Unitec (where does the money go?)	Implementation (how do the financial mechanics work?)	Approvals required (who decides?)
<p>Funding for Indirect Project costs</p>  <p><small>* Indirect Project Costs include, depreciation on research equipment or Unitec infrastructure used for the project, research administration/contract management support during contract delivery and other central institutional costs essential to operate a tertiary research institute.</small></p>	<p>Unitec aspires to sustainably grow its capacity to conduct impactful research and enterprise activities. Therefore, funding for Indirect Project costs* are sought from externally funded projects to partially reimburse Unitec for the actual costs to the business in delivering research & enterprise projects.</p> <p>An Indirect Project cost component must be considered when developing all Unitec research & enterprise project budgets. There are different ways to incorporate this component, depending on the funder, situation & project, however the three main approaches are:</p> <p>  Within a consultancy hourly rate (e.g. quoting \$120/hr for a staff member paid \$60/hr, creates an internal buffer of \$60/hr, considered 'funding for indirect project costs'). This is a commercially acceptable way to include funding for indirect costs. </p> <p>  Calculated as 110% of direct staff costs (e.g. 110% x total direct staff costs = \$ project 'overhead') – this is a standard approach agreed by NZ Govt funders MBIE, Royal Society and HRC and adopted by all NZ TEOs. Note: this approach is not considered commercially acceptable outside these large Govt funders. </p> <p>  As a research/contract administration line item in the budget. Where the Admin fee is costed at approx. 10-20% of the project budget depending on anticipated admin effort required at project delivery. This is a commercially acceptable approach if the project is large enough to warrant admin support and if costed modestly. </p> <p>For project budgets with funding for Indirect Project Costs >\$2k, this funding will be allocated internally according to the following guidelines:</p> <p>  50% is Research Management fee The services of Tūāpapa Rangahau as Unitec contract holders and key business support unit for Unitec PIs. A proportion of this fee is also paid to finance the cost of buildings and infrastructure. </p> <p>  30% is Unitec School Host fee The infrastructure and operational support of the School where lead researcher/PI resides </p> <p>  10% is Project contingency Retained in the project as contingency and used at the discretion of PI and Operations Manager. </p> <p>  10% is Principal Investigator's External Research Incentive fund, for use by the PI of the project for approved research and enterprise related purposes. </p> <p>For project budgets with funding for Indirect Project Costs <\$2k, 100% of this indirect cost funding will be allocated as Research Management fee.</p>	<p>  </p> <p>⇒ Research Management fee will be transferred to a central Research Admin project code in regular instalments in arrears. This is a key fund to sustainably grow Unitec's capacity to serve Unitec's research & enterprise activity as this activity increases. In particular, contract management, financial admin and contract admin services.</p> <p>⇒ School Host fee will be transferred to the related School cost centre(s) of the lead researcher(s) in equal 6 monthly instalments in arrears, in Jan and July each year. Where possible, this Host fee will be used by the School for research purposes. If project is delivered or led substantively across multiple Schools, a split of the Host fee will be negotiated.</p> <p>⇒ Project contingency funds will be retained in the project and spent on the project at the PI's and Operations Manager's discretion. The funds are available for as long as the project code is open. Project codes are typically closed on 31 Dec of the project's final year. If funds are unspent by this 31 Dec, funds will be considered a surplus to Unitec.</p> <p>⇒ Principal Investigator's External Research Incentive fund is managed and administered centrally by Tūāpapa Rangahau. The funds are available to the Principal Investigator for research & enterprise related expenditure up to 31 December of the project's final year. The Principal Investigator can access the funds by submitting a fund request to Tūāpapa Rangahau and can share this incentive funding with other project team members at their discretion. If funds are unspent at this 31 Dec, funds will be considered a surplus to Unitec.</p>	<p>  At Proposal / Funding application stage: </p> <p>At a minimum, Prior to submitting a funding application, the Unitec Principal Investigator (aka PI or Project Leader) must have approval from the Tūāpapa Rangahau representative or Operations Manager regarding:</p> <p>✓ Approval on the Indirect Project Costs quoted in the proposal budget (both the method used and funding amount). Note: a combination of approaches may also be useful.</p> <p>Ideally, the PI and Tūāpapa Rangahau have also created & circulated a draft 'Project Initiation Budget' (see below).</p> <p>  At Project delivery stage (if funding is awarded): </p> <p>As soon as the funding is awarded, the PI and Tūāpapa Rangahau Operations Manager will create and circulate an internal budget to the relevant Head for their approval. This budget will be completed on 'Project Initiation Budget' template to capture all funding details for Indirect project costs and the relevant internal allocations.</p> <p>Tūāpapa Rangahau reserves the right to negotiate for including a Research Admin fee at either Proposal or Project delivery stage, to ensure they are sufficiently resourced to manage the contract.</p>

	The use of external funding at Unitec (where does the money go?)	Implementation (how do the financial mechanics work?)	Approvals required (who decides?)
Direct Project costs 	<p>All direct project costs will be sourced and paid for directly from the project code (administered by Tūāpapa Rangahau Research Admin team). These costs include, for example:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Project staff (typically employed on fixed term or casual employment agreements specifically for the project) <input type="checkbox"/> Subcontractors, contracts for service <input type="checkbox"/> All project related materials, reagents, equipment, koha, transcription, sequencing, venue hire, printing etc. <input type="checkbox"/> Project dissemination and project related travel <p>The PI is responsible for planning these Direct Project costs and for keeping them within budget. Tūāpapa Rangahau Research Admin team actively support PIs to track and manage their budgets as needed.</p>	<p>All requests to set up a contract or spend project budget must be made through the Tūāpapa Rangahau Research Admin team, who will action the contract or expenditure request and initiate the required approvals on behalf of the PI.</p> <p>These direct project costs will be charged directly to 90RP cost centre + the assigned project code.</p>	<p>Unitec's HR, procurement and finance policies need to be adhered to for all direct project expenditure.</p> <p>✓ All project employment and expenditure must have prior approval from either Director of Research, Operations Manager or ELT member, according to the financial delegations and Unitec processes.</p> <p>The Tūāpapa Rangahau Research Admin team are highly experienced at navigating these policies, processes and approvals on behalf of the PI. Ask for help if needed.</p>
Project Budget surpluses or deficits 	<p>Research by nature has a tendency to evolve and so too do the project plans and project budgets. The important thing is to communicate any change with Tūāpapa Rangahau and in particular if you have any concern about project delivery or the project budget.</p> <p>✓ If there is a budget surplus, the PI will be able to negotiate use of the surplus funds for related project dissemination or research purposes, until project closure, depending on the specific contract details.</p> <p>If surplus funding is unspent at Project closure (typically 31 Dec of the project's final year and when the project is stated 100% complete), this surplus funding will be claimed as a surplus to Unitec research for that year. The exception to this is when Unitec's contract with the external funder requires Unitec to return any unspent funds.</p> <p>✗ If at any stage there is a possible budget deficit, the PI will arrange to meet with Tūāpapa Rangahau promptly to find a solution.</p> <p>If there remains a deficit at Project closure, Tuapapa Rangahau and the relevant Head will reach agreement on how the deficit will be paid according to the general principle in the 'Approvals required' section.</p>	<p>⇒ The Principal Investigator is responsible for keeping the project to budget and will work with Tūāpapa Rangahau to seek any help or advice required to do this</p> <p>⇒ At year end, Tūāpapa Rangahau will assess the projects due for closure and review any project surpluses and deficits with the relevant PIs.</p>	 <p>At Project delivery stage (if funding is awarded):</p> <p>At project commencement, an agreement will be made on how any project deficits will be managed and this agreement will be captured in the Project Initiation Budget template.</p> <p>Whilst there is always a need for a case by case assessment, as a general principle, project deficits will be cleared/funded from the following funds in order of priority:</p> <ol style="list-style-type: none"> 1. Project contingency 2. PI Incentive fund 3. School Host fee and/or Research Admin fee (alongside a discussion with Head and Director of Research regarding the details of the deficit) 4. Other options depending on the case and circumstances surrounding the deficit.

To	Unitec Research Committee	From	Marcus Williams
Title	School Research Plans	Date	12 th September 2019

Recommendation/s

That the Unitec Research Committee receive the first completed School Research Plan.

Purpose

To update the Committee on progress with developing school research plans.

Background

Following consultation with the URC members and the Senior Academic Leadership Team on a draft School Research Plan template at the 18th April 2019 meeting, Tūāpapa Rangahau worked with a school to populate the template as an exemplar. This work was done in collaboration with the School of Environmental and Animal Science.

Next Steps

Roll this process out to other schools as time allows.

Attachments

School of Environmental and Animal Science Research Plan

Contributors

School of Environmental and Animal Science

Senior Academic Leadership Team

School Research Plan – School of Environmental & Animal Sciences

1 Introduction and current state

The School of School of Environmental & Animal Sciences was formed in 2008 as part of the Faculty of Social and Health Sciences. The School offers two degrees; the Bachelor of Applied Science (with majors in Biodiversity Management and Animal Management and Welfare), and a newly approved Bachelor of Veterinary Nursing. Researchers are grouped in four research groups: Biosecurity, Taxonomy and Applied Ecology, Animal Behaviour and Welfare, Veterinary Nursing and the Applied Molecular Solutions Research Centre.

Number of degree teaching staff	16
Total research FTE allocated	4.1
Current Research Traffic Light rating (Percentage of green lit staff)	88%
PBRF history (Number of PBRF rated staff in 2018)	12

Staff in the School are highly research-active. Twelve staff achieved ratings in the latest (2018) PBRF round (1A, 4 Bs, 4 Cs and 3 C(NE)s), and the Bachelor of Applied Science has been consistently green-lit in the Research Productivity Traffic Light.

Research is embedded within teaching and learning approaches and the curriculum, particularly at the degree level. Examples range from the inclusion of recently published research in taught content, teaching students practical research skills, helping students to develop a research-based mindset (critical and reflective thinking, ethics), including students in lecturer and stakeholder/industry-led research and supporting students to develop and carry out their own research projects. The success or otherwise of these activities is reviewed at the completion of every degree course in a moderation process which feeds into Course and Programme Evaluation and Planning Reports (CEPs and PEPs).

Examples of where research-active staff incorporate research outcomes into teaching include;

- Mel Galbraith: NSCI7104 *Restoration ecology* – socio-ecology;
- Peter de Lange: NSCI6735 *Concepts in biodiversity - Leptospermum* taxonomy;
- Glenn Aguilar: NSCI7736 *Applied GIS* – climate change modelling;
- Lauren Prior: NSCI5712 *Introduction to veterinary clinic practice* – vet nursing environment.

Staff/student collaboration is facilitated through the 30-credit level 7 research course (NSCI7731 *Negotiated research*), which is a core compulsory course for both the Bachelor of Applied Science and Bachelor of Veterinary Nursing.

Research is frequently a staff/student collaboration, particularly through NSCI7731 *Negotiated research*. Staff/student co-publishing may result from this collaboration; e.g.:

- Cooling V, Galbraith M. 2006. Mapping the risk of a pest snail. *Biosecurity* 69: 16-17;
- Jones G, Fraser D, Lallu U, Fenwick S-J. 2016. Perceptions and impacts: an observational pilot study of the effects of Argentine ants on honey bees in New Zealand. *Perspectives in biosecurity* 1;
- Large M, Farrington L. 2016. The Nephrolepis Boston fern complex (including *Nephrolepis exaltata* [L.] Schott), Nephrolepidaceae, naturalised in New Zealand. *Perspectives in Biosecurity* 2.

Research-active staff have extensive industry links, some of which involve externally-funded research projects. Results of research collaborations with external industry partners are frequently incorporated into teaching; e.g.:

- NSCI6746 *Ecological Risk & Mitigation* - black-backed gull ecology (urban ecology); partners - Auckland Museum and NIWA;
- NSCI7736 *Applied GIS* – remote sensing; partner Reconnecting Northland.
- NSCI7107 *Biosecurity* – biological control of invasive plants; partner Auckland Council.

2 School of Environmental & Animal Sciences Goals and KPIs

The School of Environmental & Animal Sciences has the current goals. The baseline figures represent 2018 data.

1. Stretch goal: Increase external funding from \$41,214 to \$54,570 by 2022
2. Increase the annual number of quality assured (QA) research outputs from 42 to 60 by 2022.
3. Increase the annual number of peer-reviewed journal articles to 25 by 2022 (School/discipline-specific goal).
4. Maintain industry-funded projects at 20-25 projects per year.
5. Maintain green traffic light with 88% or more for Bachelor of Applied Science; achieve green traffic light for Bachelor of Veterinary Nursing by 2021.
6. Increase the number of EAS staff who have published peer-reviewed journal articles to 15 by 2022.

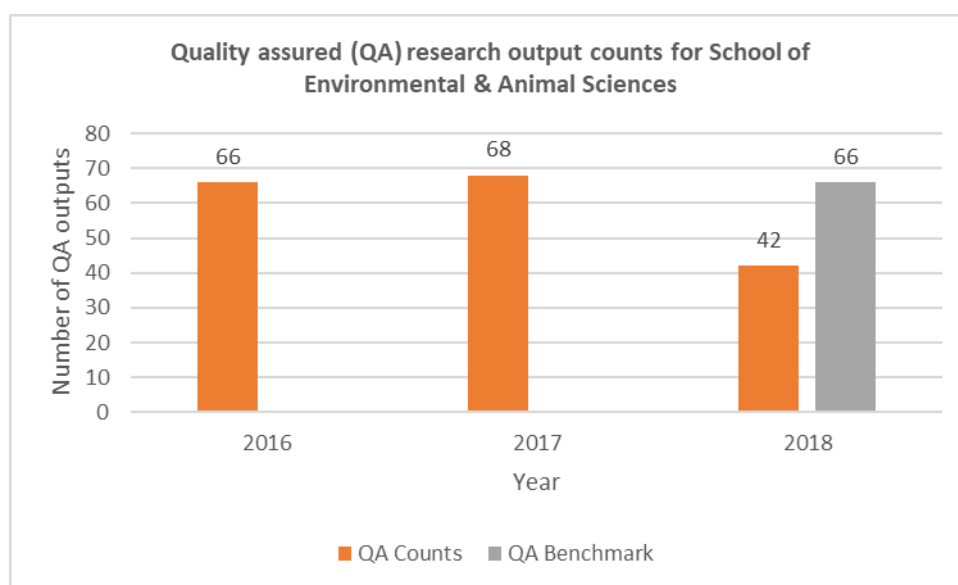


Figure 1: School of Environmental & Animal Sciences Quality Assured Research Outputs

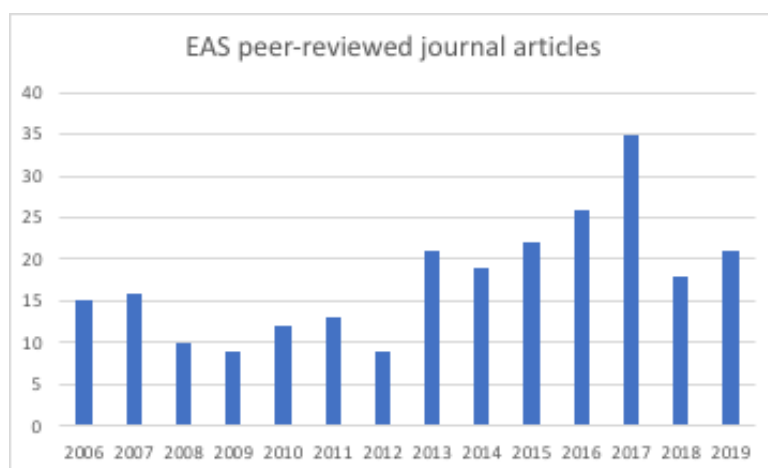


Figure 2: School of Environmental & Animal Sciences peer reviewed journal articles

Note: Peer reviewed journal articles, conference proceedings and book chapters are included here as a discipline-specific internal measure of research productivity for EAS researchers. 2019 data is a projection based on in print papers (15) and accepted or in press articles (6). There was a peak in output in 2017 due to pre-PBRF publishing activity, and overlap between the departure of two highly-productive researchers (Lefort and Boyer) and the arrival of two more highly productive researchers (Veale and de Lange). The general target for EAS is to publish 20-25 peer-reviewed journal articles per year.

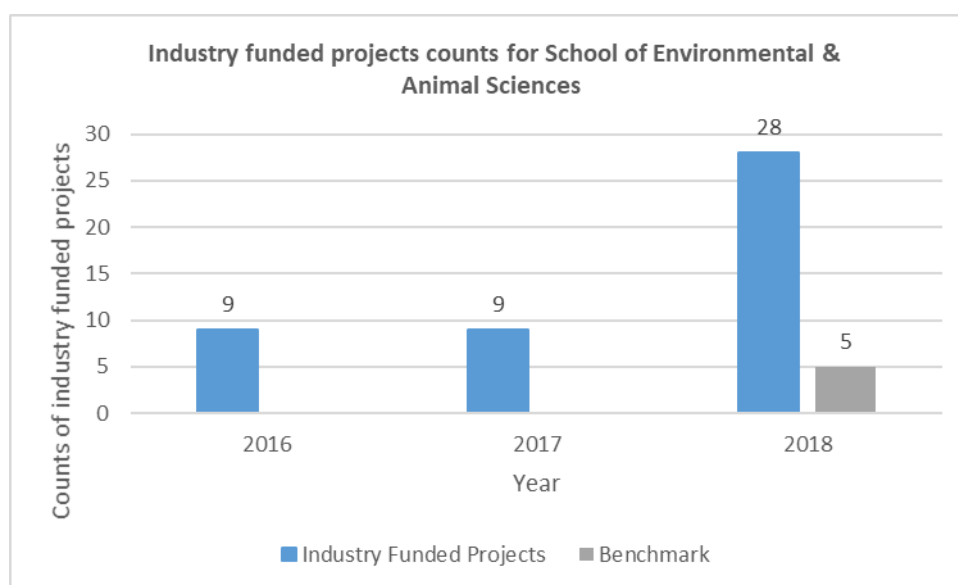


Figure 3: School of Environmental & Animal Sciences Industry Funded Projects

Note: There was a slight change in the definition of industry funded projects in 2018 to include public sector and where the services Unitec is providing is applied contract research or consultancy. Prior to this only funding from private sector was included. Thus the 2018 figures reported are comparatively higher than that of 2016 and 2017.

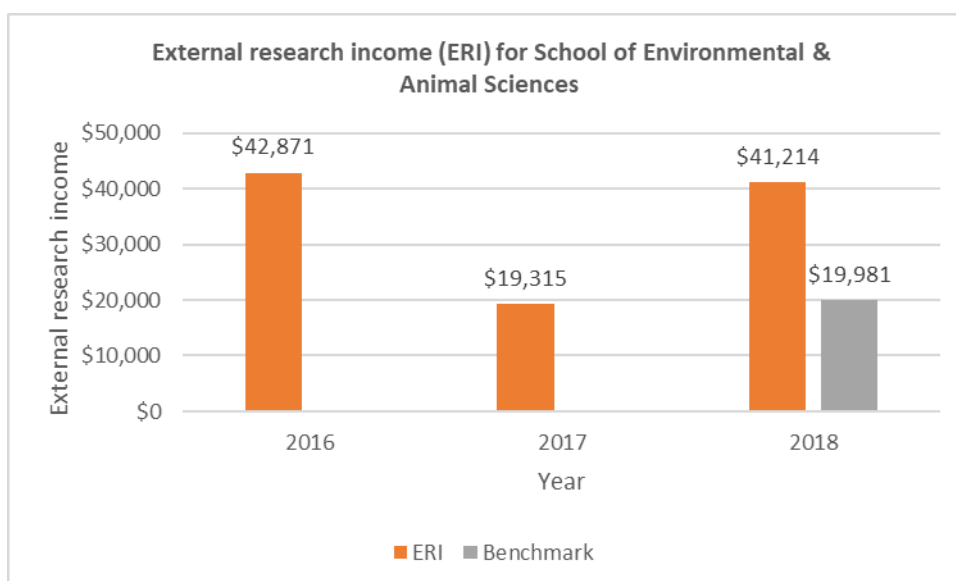


Figure 4: School of Environmental & Animal Sciences External Research Income

3 SWOT analysis for research in School of Environmental and Animal Sciences.

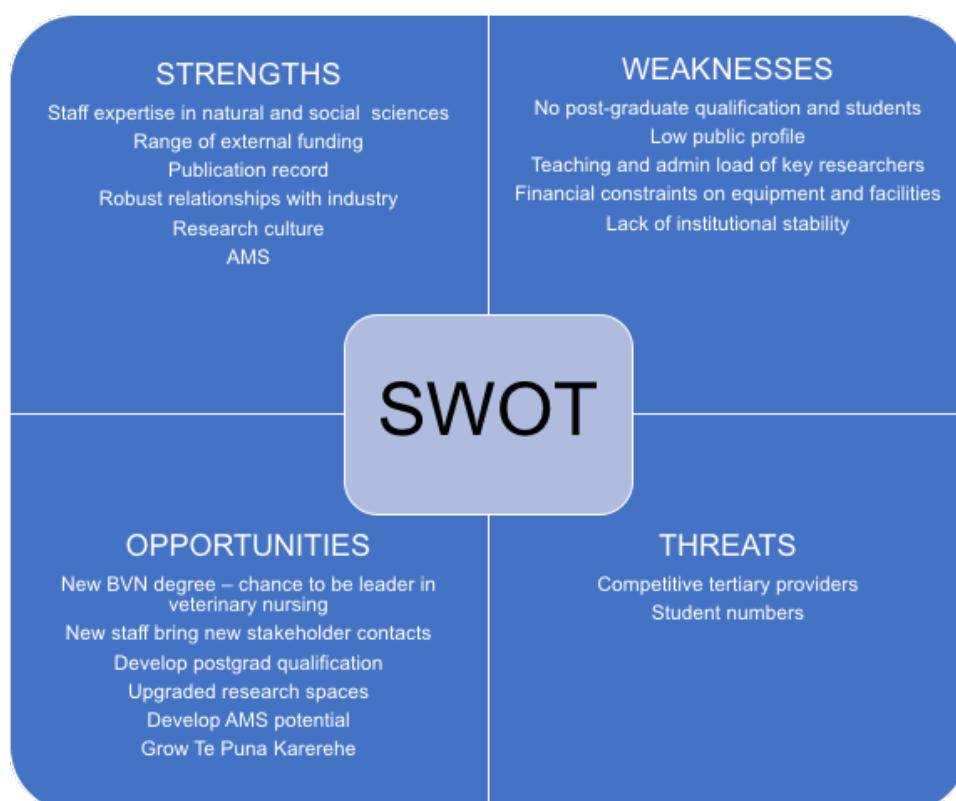


Figure 5: SWOT analysis for research in School of Environmental and Animal Sciences

4 Research Groups and projects

One of the key techniques for achieving goals and finding efficiencies while having fun along the way, is to work together. Unitec cannot afford to support discreet research trajectories for every individual teaching on degree programmes and this approach is equally unlikely to result in impactful research for our industries and communities.

The School of Environmental and Animal Sciences has three research groups (Animal Behaviour and Welfare; Biosecurity, Taxonomy and Applied Ecology; Veterinary Nursing) and hosts a research focus (Applied Molecular Solutions). In addition, a number of EAS staff are members of the newly created Environmental Solutions Research Centre (hosted by the School of Engineering and Applied Technology).

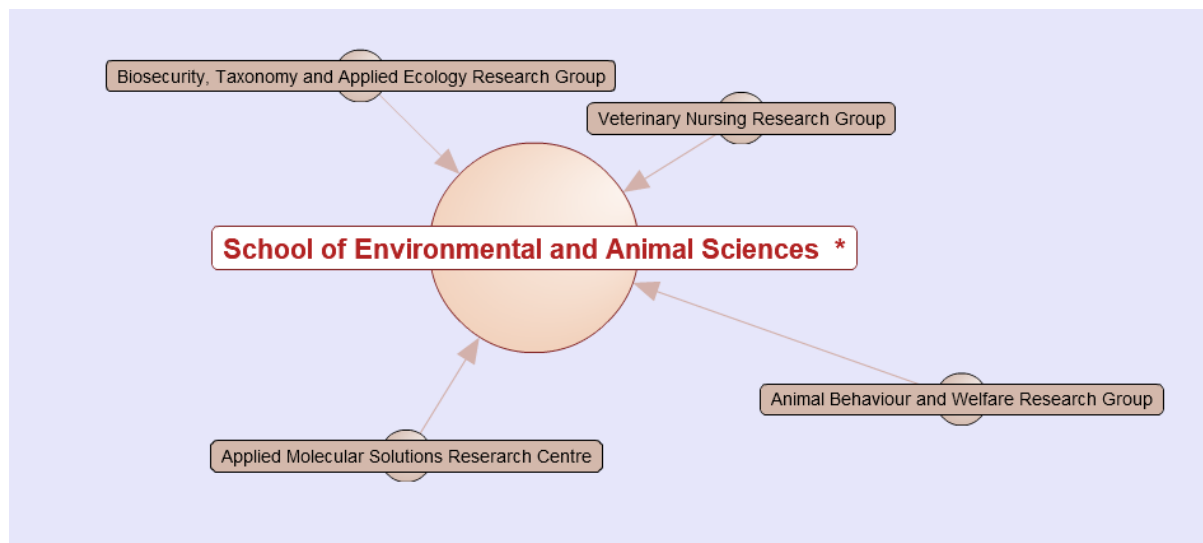


Figure 6: School of Environmental & Animal Sciences four research groups

The above research groups/centre partner with external funders and win funding/grants, which Unitec calls it External Research Income (ERI). Below are the external research partners who funded projects over the last 3 years.

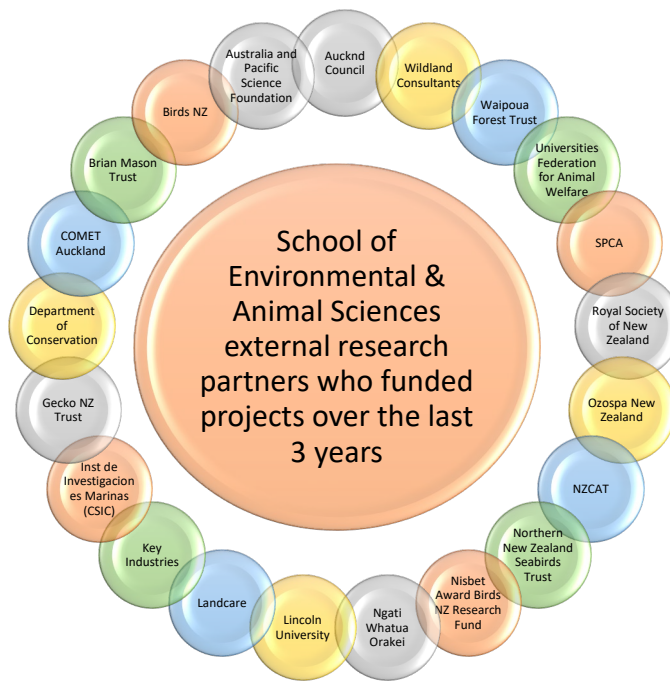
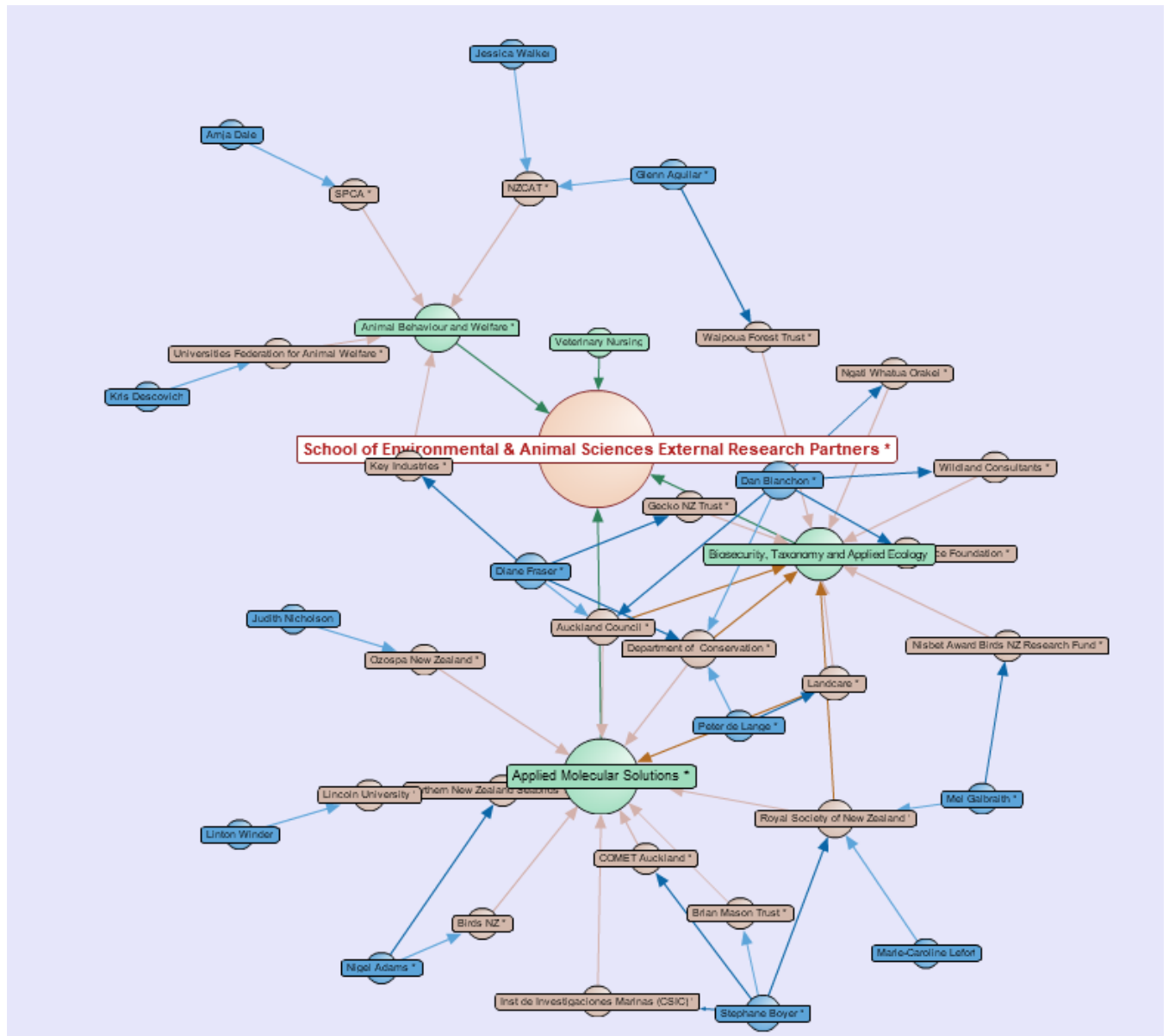


Figure 7: School of Environmental & Animal Sciences external research partners who funded projects over the last 3 years



4.1 Research Group One - Animal Behaviour and Welfare

Statement of purpose

Research in the area of Animal Behaviour and Welfare is directed towards:

- Understanding the interaction between humans and animals;
- Developing physiological and behavioural measures of the welfare status of animals;
- Application of these measures to evaluate current and new husbandry and management systems;
- Developing an understanding of the natural ecological and behavioural requirements of captive wild animals to improve the management of captive vertebrates in zoo and other animal holding facilities.

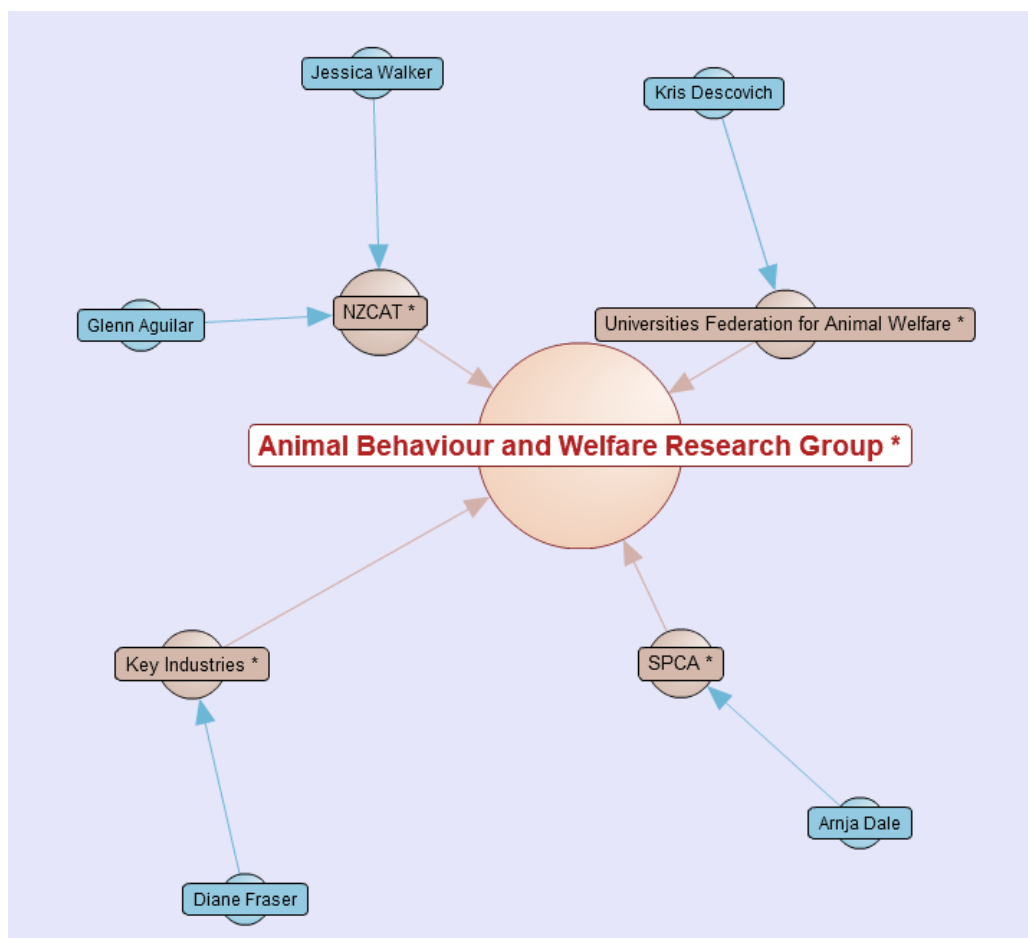


Figure 9: Animal Behaviour and Welfare research group externally funded research partners and lead researchers

Goal 1: Increase number of research-active staff in Animal Behavior and Welfare				
Action	Responsible	Deadline	Resources needed	Desired result
Identify and appoint Research Fellow in this area to mentor and partner	Research Leader	September 25 th 2019	Application to URC	3 projects set up over semester 2
Initiate staff research support group	Research Leader and EASRC	June 2019	None	Fortnightly meetings
Support 2 staff to attend writing retreats	EASRC and Research Leader	July 2019	Tūāpapa Rangahau support	Two staff submit journal articles

Goal 2: Increase external research income in Animal Behaviour and Welfare				
Action	Responsible	Deadline	Resources needed	Desired result
Create database of potential external funds	Research Leader and Brenda Massey	September 25 th 2019	Brenda Massey (time)	Funding for project start in 2020
AB&W staff to identify projects which could apply for external funding	Research Leader, AB&W staff	November 3rd	Brenda Massey	Funding for project start in 2020

4.2 Research Group Two – Biosecurity, Taxonomy and Applied Ecology

Statement of purpose

Research in the area of Biosecurity and Applied Ecology is directed towards:

- Contributing to the taxonomy of indigenous biota;
- Understanding the interaction between biota and the environment;
- Understanding the impact of anthropogenic change on indigenous biota, particularly in the area of biosecurity;
- Application of research to inform current management approaches.

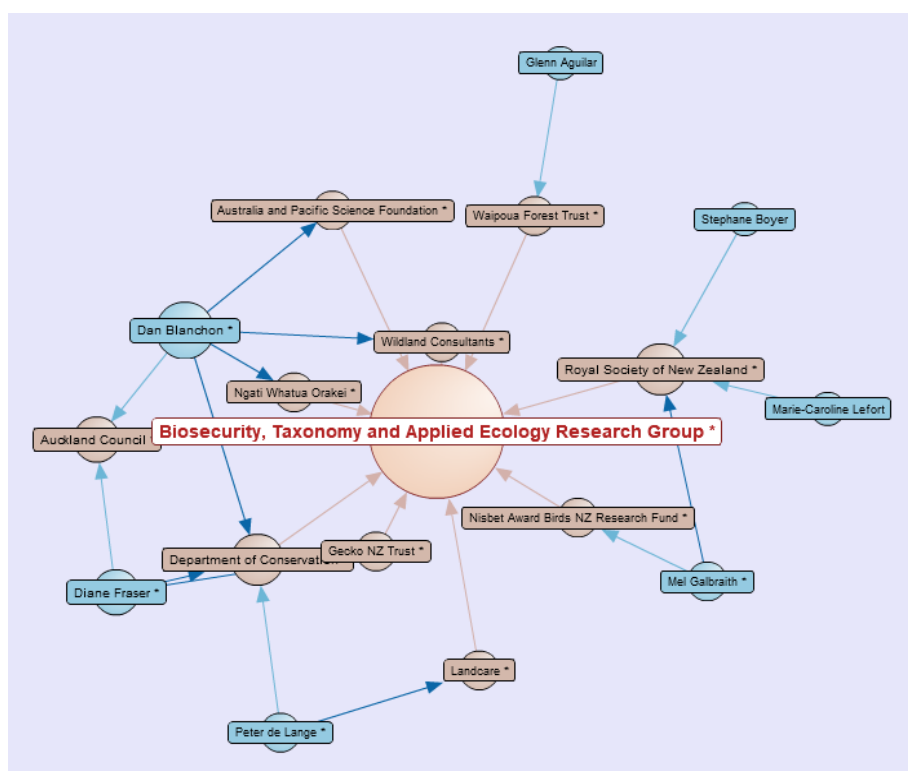


Figure 10: Biosecurity, Taxonomy and Applied Ecology research group externally funded research partners and lead researchers

Note: This group's externally funded partners and/or researcher overlap with the other two research groups and these are visible on the graphs.

Goal 1: Increase number of research-active staff in Biosecurity, Taxonomy and Applied Ecology				
Action	Responsible	Deadline	Resources needed	Desired result
Partner less experienced team members with senior researchers	Research Leader and Research Group Two leader	September 25 th 2019	Dissemination Funding	Co-authored paper for each partnership
Initiate staff research support group	Research Leader, EASRC	June 2019	None	Fortnightly meetings
Support 2 staff to attend writing retreats	EASRC and Research Leader	June 2019	Tūāpapa Rangahau support	Two staff submit journal articles
Develop postgraduate programme	HoS, RL, EASRC	Proposal by October 2019	Tūāpapa Rangahau, IWC, TKK	Postgraduate programme submitted to NZQA
Support staff to publish QA papers in ePress <i>Perspectives in Biosecurity</i>	MG and DB	Ongoing	ePress editor, copy editor and layout	Regular journal editions, staff outputs.

Goal 2: Increase external research income in Biosecurity, Taxonomy and Applied Ecology				
Action	Responsible	Deadline	Resources needed	Desired result
Identify key research programmes and plan external funding applications	Research Leader and EASRC	September 25 th 2019	Brenda Massey (time)	2-3 externals funding applications per year
Investigate contract research opportunities with environmental consultants and councils	Research Leader and BAE staff	Ongoing	Tūāpapa Rangahau contract advice and management	2-3 contracts per year
Support expansion of current subcontracting arrangements with CRIs and DoC	HoS, Research Leader, PdL	Ongoing	Tūāpapa Rangahau contract advice and management	

4.3 Research Group Three – Veterinary Nursing

Statement of purpose

Research in the Veterinary Nursing research group is mainly focused on exploring topics impacting on the veterinary nursing profession such as compassion fatigue and barriers to accessing professional development, but also clinical topics such as surveying for parasites in dogs in Tonga. The team is made up of early career researchers, but they collaborate closely with members of the Animal Behaviour and Welfare Research Group and Applied Molecular Solutions Research Focus. Staff are currently gaining postgraduate qualifications, mainly relying on internal funding, and moving from conference papers to journal articles.

Goal 1: Increase number of research-active staff in Veterinary Nursing				
Action	Responsible	Deadline	Resources needed	Desired result
Support all teaching staff with at least 0.1 research time	Research Leader, HoS and Tūāpapa Rangahau	November 2019 (for 2020 workload)	Time	All staff producing one QA output per year.
Support staff to gain	HoS and APM	2 staff enrolled in 2020	EAS PD budget	Three VN staff with Masters by 2022

postgraduate quals				
Partner staff with AB&W researchers and group into research teams	Research Leader, APM and AB&W staff	February 2020	Time and potentially ECR funding	All staff in at least one research project team by Feb 2020

Goal 2: Increase external research income in Veterinary Nursing				
Action	Responsible	Deadline	Resources needed	Desired result
Identify key projects in need of external funding	Research Leader, APM and VN staff	September 25 th 2019	Time	Funding for project start in 2020
Identify possible sources of external funding and apply	Research Leader, APM, VN staff	November 3rd	Brenda Massey (time)	Funding for project start in 2020

4.4 Research Group Four - Applied Molecular Solutions Research Centre

Statement of purpose:

The Applied Molecular Solutions Research Centre aims to use our ability to identify organisms or parts of organisms rapidly and efficiently from small amounts of biological or environmental material. The explosive growth in the availability of genetic data is transforming our understanding of the world around us. Genomic data unlocks opportunities for decision-making that relates to the protection of natural resources, animal health, human health and plant health. These genetic resources can be used, for example, to create rapid diagnostic tests for diseases that affect humans, crops, or livestock. They can also be used for more comprehensive studies that characterize whole communities of organisms, describe the physiology of an animal or understand how genes function in a given ecological situation. We aim to apply existing technologies and develop and validate new approaches such that they are suitable for addressing identified problems generated by the industries and communities we serve. We are currently involved in medium and small scale applied projects with stakeholder groups and industries such as councils, government departments, industry groups and private companies. Within Unitec there are opportunities for collaborative research with Computing (bioinformatics), Health (osteopathy, nursing), Landscape Architecture (landscape scale genetics, restoration genetics) and in the areas of environmental engineering and sustainability.

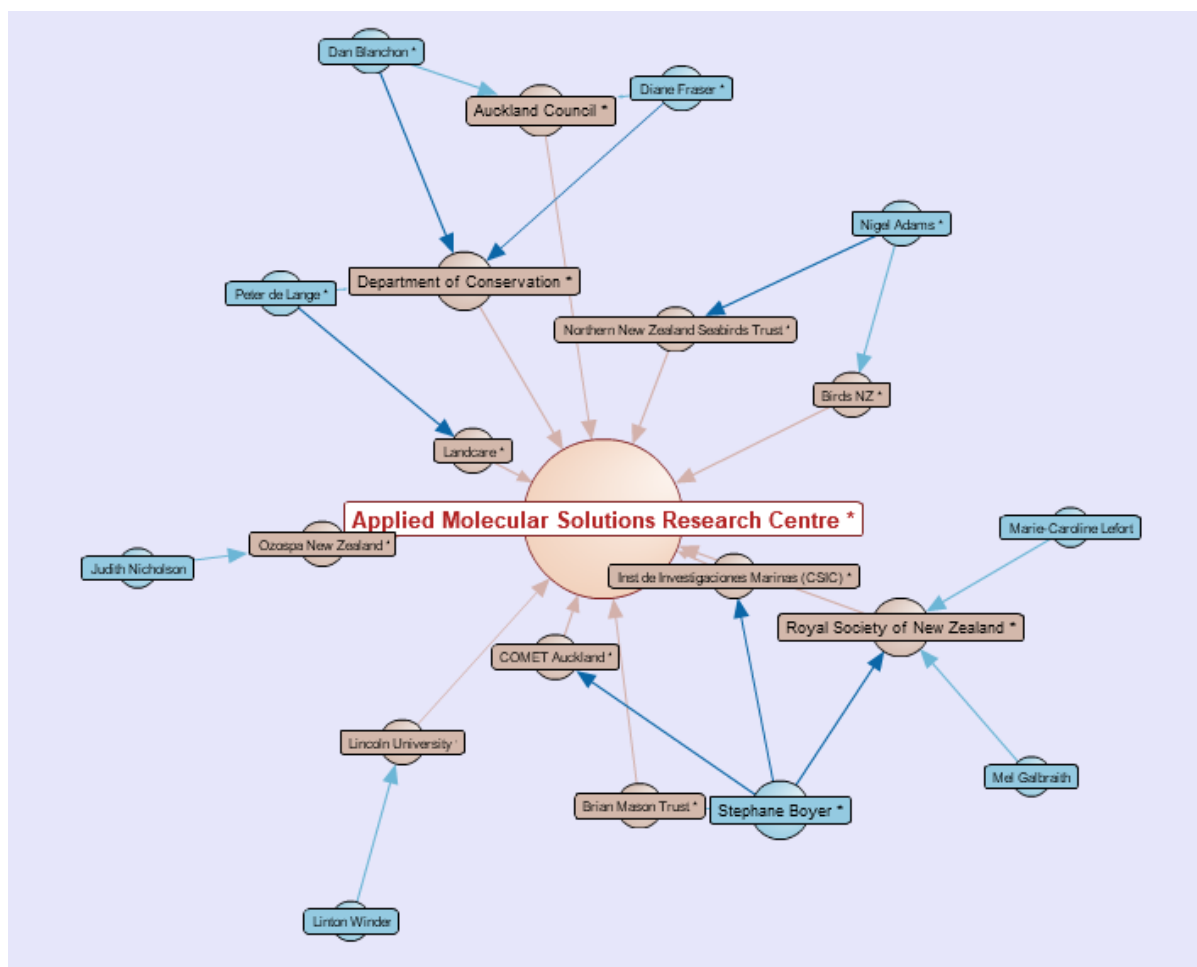


Figure 5: Applied molecular solutions research group externally funded research partners and lead researchers

Note: This group's externally funded partners and/or researcher overlap with the other two research groups and these are visible on the graphs.

Goal 1: To develop and apply appropriate technologies and analytical approaches to provide solutions for real problems in biodiversity, biosecurity, agriculture, animal welfare and health generated by industry and/or the community.				
Action	Responsible	Deadline	Resources needed	Desired result
Develop novel methods for a better understanding of diet requirements of Gannets	Project leader: Nigel Adams	Ongoing	Continued external funding	Co-authored journal paper
Determine the potential impacts of invasive species (Mexican Daisy) and provide solutions	Project leader: Dan Blanchon Erin Doyle Mark Large Hayley Nessia	Submit MD article by Oct 2019 Submit updated tender (Climbing)	Continued contract management and support Tender support	Two journal articles External funding Studentships

for their management (Mexican Daisy, African clubmoss, climbing asparagus)		Asparagus) to Auckland Council by Sept 2019 <i>Rubus</i> article submitted to PiB Sept 2019		
Utilise molecular methods to aid in the cataloguing of the native biota of New Zealand (lichens, native plants, birds, insects)	Project leaders: Peter de Lange, Dan Blanchon. Sarah Wells Marleen Baling Erin Doyle Andrew Marshall	Submit <i>Cladia</i> paper Nov 2019 Submit <i>Parmotrema</i> article Dec 2019	Technical support External funding Internal ops funding	Three journal papers
To develop new tools for the assessment of health and welfare in animals	TBA	TBA	TBA	TBA

Goal 2: To be a catalyst for the development of cross-campus interdisciplinary teams applying molecular solutions to research problems.

Action	Responsible	Deadline	Resources needed	Desired result
Support 2 major inter-disciplinary collaborative projects by 2020 (Asbestos & <i>Cannabis</i>)	Dan Blanchon Erin Doyle Mark Large Peter de Lange	ongoing	Contract and external funding support	Co-authored paper for each partnership and external funding
Stretch goal: Generate \$40,000 of external research income annually by 2020	Dan Blanchon Peter de Lange Erin Doyle Nigel Adams	continuous	Contract and external funding support	External funding for main project programmes
Support the development of a postgraduate programme (2-3 EFTS by 2022)	Dan Blanchon, EAS staff, Tūāpapa Rangahau, etc.			
Increase Unitec research capacity and capability in molecular biology (5 staff actively researching, including 2	Dan Blanchon Tennille Stone			

emerging researchers by 2021)				
Generate peer-reviewed publications, including journal articles, book chapters, conference proceedings (6 per annum by 2020).	Dan Blanchon Mel Galbraith Erin Doyle All AMS staff			
To establish a Centre in Applied Molecular Solutions (2020)	Dan Blanchon All AMS staff	Submit application September 2019	Tūāpapa Rangahau expertise	Successful application

Goal 3: To promote public awareness, increase knowledge and build capability in molecular biology and the issues around biotechnology.

Action	Responsible	Deadline	Resources needed	Desired result
To maintain and develop an effective online presence for Applied Molecular Solutions.	DB and ED	Ongoing	Time for ED, technical expertise for AMS website (Wordpress)	Monthly website posts, weekly FB posts, fortnightly tweets.
To have a strong presence at relevant New Zealand conferences and symposia.	All AMS staff, research leader	ongoing	Conference funding	2 conference attendances per annum
To engage in public outreach activities such as Bioblitz with field-based DNA analyses.	All AMS staff	As required	Event kit Volunteers List of potential events Bentolabs	TBA
To run short courses/workshops in Molecular analysis offered to industry and other stakeholders including schools	All AMS staff, Erin Doyle, UPC, IWD team	One per year	AMS lab Consumables	TBA

5 Current staff expertise

Below are the data of the current staff members in terms of their RPTL status, Principal Investigator (PI) for external grants, PI for Industry funded projects and research outputs over the last three years.

Staff Name	PI for External Research	PI for Industry Funded Projects	2019 RPTL Status	Research outputs (2016-2018)	Expertise
Dr Caralyn Kemp			Green lit	1- Book Chapter, 1- Conference Contribution- Oral Presentation and 2- Journal Articles	Expertise in animal behaviour and welfare; statistics
Assoc. Professor Dan Blanchon	PI for 7 externally funded projects	PI for 10 industry funded projects	Green lit	2 - Conference Contributions - Oral Presentation, 1 - Conference Contribution- Poster Presentation, 9 - Journal Articles and 1 - Report	Expertise in botany, lichenology, taxonomy, biosecurity molecular biology and microbiology
Dr Diane Fraser	PI for 9 externally funded projects	PI for 10 industry funded projects	Green lit	5 - Conference Contributions - Oral Presentation, 9 - Conference Contributions- Poster Presentation, 4 - Journal Articles, 1 - Presentation (non-conference) and 2 - Reports	Expertise in biosecurity, animal nutrition, advocacy and public policy.
Erin Doyle				1 - Journal Article	Expertise in molecular biology, microbiology and invertebrate collection and identification
Dr Glenn Aguilar	PI for 2 externally funded projects	PI for 5 industry funded projects	Green lit	1 - Book Authored, 5 - Conference Contributions- Oral Presentation, 3 - Conference Contributions- Poster Presentation and 4 - Journal Articles	Expertise in geographic information systems (GIS), marine fisheries, modelling.
Graham Jones			Green lit	3 - Conference Contributions- Oral Presentation and 1 - Journal Article	Expertise in ecology and ornithology
Dr Judith Nicholson		PI for 1 industry funded project	Green lit	1 - Conference Contribution- Oral Presentation and 2 - Presentations (non-conference)	Expertise in microbiology and pathology

Dr Kristie Cameron			Green lit	2 - Conference Contributions- Oral Presentation, 5 - Conference Contributions- Poster Presentation and 3 - Journal Articles.	Expertise in animal behaviour, nutrition and welfare; statistics.
Kristina Naden			Amber lit	1 - Conference Contribution- Poster Presentation	Veterinary nursing
Laura Harvey			Green lit	2 - Conference Contributions- Oral Presentation, 2 - Conference Contributions- Poster Presentation and 1 - Presentation (non-conference)	Expertise in veterinary nursing professional topics
Dr Lorne Roberts			Green lit	4 - Conference Contributions- Oral Presentation and 3 - Presentations (non-conference)	Expertise in captive animal biology
Assoc. Professor Mark Large			Green lit	3 - Journal Articles and 2 - Other types of outputs	Expertise in botany, palynology, plant anatomy and histology; statistics
Melvyn Galbraith	PI for 2 externally funded projects	PI for 2 industry funded projects	Green lit	5 - Conference Contributions- Oral Presentation, 1 - Conference Contribution- Poster Presentation, 2 - Journal Articles and 5 - Presentations (non-conference)	Expertise in ecology, ornithology and
Assoc. Professor Nigel Adams	PI for 2 externally funded projects	PI for 3 industry funded projects	Green lit	2 - Conference Contributions- Oral Presentation, 6 - Conference Contributions- Poster Presentation, 4 - Journal Articles, 1 - Presentation (non-conference) and 3 - Reports	Expertise in ornithology (particularly seabirds), diet, vetebrate anatomy and physiology; statistics.
Assoc. Professor Peter de Lange	PI for 1 externally funded project	PI for 2 industry funded projects	Green lit	4 - Books Authored, 3 - Conference Contributions- Oral Presentation, 1 - Educational Material, 24 - Journal Articles, 1 - Monograph and 1 - Presentation (non-conference).	Expertise in botany, biosecurity, geology, lichenology.

Dr Sofia Chambers			Red lit	1 - Conference Contribution-Oral Presentation.	Expertise in molecular biology
Dr Sarah Wells			TBA		Expertise in molecular ecology
Dr Marleen Baling			TBA		Expertise in molecular ecology