



# agenda

## Te Komiti Rangahau o Unitec | Unitec Research Committee

Date:	2021-05-13
Scheduled Start:	1300h
Scheduled End:	1500h
Location:	Microsoft Teams

### SECTION 1 NGĀ KUPU ARATAKI | PRELIMINARIES

1. Karakia Tīmatanga | Opening Prayer
2. Mihi Whakatau | Welcome from the Chair
3. Membership
4. Terms of Reference

### SECTION 2 STANDING ITEMS

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

### SECTION 3 MEA HEI WHAKAAE | ITEMS TO APPROVE

N/A

### SECTION 4 WHAKAWHITI KŌRERO | ITEMS FOR DISCUSSION

1. Analysis of SWOT Sections of 2020 (Degree) School Research Plans

### SECTION 5 NGĀ TUKUNGA | ITEMS TO RECEIVE

1. Annual Research Centre Reports
  - i. Applied Molecular Solutions Research Centre
  - ii. Environmental Solutions Research Centre
  - iii. Ngā Wai a te Tūi Māori and Indigenous Research Centre
2. PBRF Review Outcome and Unitec Internal PBRF Review

### SECTION 6 KUPU WHAKAMUTUNGA | CLOSING

1. Ētahi Kaupapa Anō | Any Other Business

2. Komiti Self-Assessment
3. Karakia Whakamutunga | Closing Karakia

## **SECTION 1                      NGĀ KUPU ARATAKI | PRELIMINARIES**

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### **Item 1.1                      Karakia Tīmatanga | Opening Prayer**

<b>KARAKIA TĪMATANGA</b>	<b>OPENING PRAYER</b>
<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                      Mihi Whakatau | Welcome from the Chair**

### **Item 1.3                      Te Komiti Rangahau o Unitec Membership**

Marcus Williams (Associate Professor)	Chair and Director Research and Enterprise
Daisy Bentley-Gray (New and Emerging)	Nominee of Director, Pacific Success
Dr Jenny Lee-Morgan (Professor)	Nominee of Director, Māori Success
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)	Healthcare and Social Practice
Dr Hamid Sharifzadeh (Associate Professor)	Computing and Information Technology
Dr Leon Tan (Associate Professor)	Creative Industries
Dr Kristie Cameron (Early Career)	Environmental & Animal Sciences
Dr Maryam Mirzaei (Early Career)	Applied Business
Robyn Gandell (Early Career)	Bridgepoint
Susan Eady	Subject Librarian
Vacant	One member nominated by the Student Council
Arun Deo	Research Advisor

**In attendance:** Brenda Massey                      Acting 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, with emphasis on the development of Māori and Pacific research capability;
  - g. Oversee the monitoring of research outputs and research reporting; and,
  - h. Foster Māori and Pacific, transdisciplinary, collaborative and externally engaged research, enterprise and innovation.

## SECTION 2                      STANDING ITEMS

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

#### **RECOMMENDATION**

That the committee accepts the apologies of today's meeting.

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

*refer to [pg5](#)*

#### **RECOMMENDATION**

That the committee approves the minutes of the meeting of 2021-04-08.

### **Section 2.3                      Mahia Atu | Matters Arising**

*refer to [pg12](#)*

## SECTION 3                      MEI HEI WHAKAAE | ITEMS TO APPROVE

### **Section 3.1                      N/A**

## SECTION 4                      WHAKAWHITI KŌRERO | ITEMS FOR DISCUSSION

### **Section 4.1                      Analysis of SWOT Sections of 2020 (Degree) School Research Plans**

*refer to [pg13](#)*

## SECTION 5                      NGĀ TUKUNGA | ITEMS TO RECEIVE

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### **Section 5.1                      Annual Research Centre Reports**

*refer to [pg16](#)*

- i.    Applied Molecular Solutions Research Centre [pg17](#)
- ii.   Environmental Solutions Research Centre [pg21](#)
- iii.   Ngā Wai a te Tūi Māori and Indigenous Research Centre [pg24](#)

### **Section 5.2                      PBRF Review Outcome and Unitec Internal PBRF Review**

*Verbal update from the Chair*

## SECTION 6                      KUPU WHAKAMUTUNGA | CLOSING

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### **Section 6.1                      Ētahi Kaupapa Anō | Any Other Business**

### **Section 6.2                      Komiti Self-Assessment**

*refer to [pg34](#)*

### **Section 6.3                      Karakia Whakamutunga | Closing Karakia**

TE KARAKIA WHAKAMUTUNGA	CLOSING 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:	2021-04-08
Scheduled Start:	1300h
Scheduled End:	1500h
Location:	Microsoft Teams

<b>MEETING OPENED:</b>	1300h
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### SECTION 1 – NGĀ KUPU ARATAKI | PRELIMINARIES

#### Item 1.1 Karakia Timatanga | Opening Prayer

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 Mihi Whakatau | Welcome from the Chair

The Chair warmly welcomed members of the committee to the meeting.

### SECTION 2 – STANDING ITEMS

#### Item 2.1 Ngā Whakapāha | Attendance, Apologies & Quorate Status

##### Members Present

1. Marcus Williams (Chair)
2. Arun Deo (left at 2pm)
3. Roger Birchmore
4. Tui Matelau (proxy for Robyn Gandell)
5. Helen Gremillion
6. Leon Tan
7. Kristie Cameron

8. Falaniko Tominiko (proxy for Daisey Bentley-Gray)
9. Maryam Mirzaei
10. Lian Wu
11. Susan Eady
12. Iman Ardekani (proxy for Hamid Sharifzadeh)

Total members represented: 12 members

#### Apologies

1. Yusef Patel
2. Robyn Gandell
3. Hamid Sharifzadeh
4. Daisy Bentley-Gray

Total apologies: 4 member/s

#### Absent

1. Prof Jenny Lee-Morgan

Total absences: 1 member

#### MOTION

**That the committee accepts the apologies for today's meeting.**

**Moved: Lian Wu**

**Seconded: Roger Birchmore**

**MOTION CARRIED**

#### Quorate Status

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

#### Hunga Mahi | Staff in Attendance

1. Brenda Massey, Acting Secretary

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

#### MOTION

**That the committee approves the minutes of the 2020-03-11 meeting as a true and accurate record.**

**Moved: Tui Matelau**

**Seconded: Iman Ardekani**

**MOTION CARRIED**

#### Item 2.3 Mahia Atu | Matters Arising

Agenda Item	Action	Responsible	Outcome
3.1	Amend the draft action plan to incorporate the feedback received, and to reflect the discussions had in section 4.1. A revised iteration will be presented at the April meeting.	Marcus Williams	Complete - on agenda

3.3	Add text around the KPI associated with Priority One to the School Research Plan reporting template.  Consult with key people (e.g. Linda Kestle and Becca Wood) about the format and requirements of the School Research Plan reporting template and send any feedback received to Arun Deo for integration into the template.	Marcus Williams  Roger Birchmore/ Leon Tan/ Arun Deo	In progress  Complete – on agenda
4.1	Consolidate the committee's feedback on the KPI for Priority One in the 2020 - 2024 Unitec Research Strategy – Action Plan (DRAFT) into a memo for the next meeting.  Discuss whether the statistics the subject librarians keep on their research related interactions would be useful for School Research Leaders.	Brenda Massey/ Marcus Williams  Susan Eady/ Arun Deo	Complete – on agenda  In progress

### SECTION 3 – MEA HEI WHAKAAE | ITEMS TO APPROVE

#### **Section 3.1                      2020 – 2021 Unitec Research Strategy – Action Plan (revised DRAFT)**

An updated 2020 - 2024 Unitec Research Strategy – Action Plan and revised Key Performance Indicator (KPI) for Priority One reflecting feedback previously provided by the committee was presented.

The committee acknowledged that the revised KPI reflects the practicalities associated with collecting data to measure progress towards meeting the KPI, e.g. staff resourcing.

#### **MOTION**

**That the committee approves the 2020 – 2024 Unitec Research Strategy – Action Plan and KPI for Priority One.**

**Moved: Falaniko Tominiko**

**Seconded: Susan Eady**

**MOTION CARRIED**

### SECTION 4 - WHAKAWHITI KŌRERO | ITEMS FOR DISCUSSION

#### **Section 4.1                      Reporting Against School Research Plans**

Feedback from the School of Creative Industries and the School of Building Construction on the proposed format for Schools to report annually against their Research Plans was received.

In addition to the discussion points contained in the Agenda, the following points were raised and considered:

#### **Section 4: Research Groups**

- It was queried whether information on the members and focus of research groups operating within a School is useful to anyone outside of the School. The Chair elucidated that 1) Unitec

is trying to encourage staff collaborations, and the maturation of research groups into research centres. 2) The information collected on research groups is useful for Schools when they reflect on synergies between what they are researching and what they are teaching. 3) This information can inform Schools' responses to queries arising from course moderators, five year reviews and during the accreditation of new courses.

#### Section 5: Current Staff Expertise

- It was acknowledged that information in this section can be time consuming to collate.
- It was queried whether listing individual staff's research outputs is useful in a Plan.
- There were mixed feelings about whether staff would review the Research Plans of other Schools when seeking out expertise from other areas.
- It was noted that there is some overlap between the information provided in the 'Expertise' column in this section of the report and the information that is listed in staff profiles on the Unitec website, although staff profiles appear to be focussed more on research interests rather than areas of expertise. Marcus Williams advised that the ITP Research Directors group is reviewing what information is contained in staff profiles on institutional websites across the sector and it is hoped that future platforms will incorporate more fulsome information on staff research expertise. The comment was made that the Research Partners (Gregor Steinhorn and Penny Thomson) have a good understanding of who is doing what across the institution if people are looking to be in touch with someone with particular expertise.
- Arun Deo sends Research Leaders a separate spreadsheet of staff's RPTL status (i.e. whether they are green, amber or red lit). Because of this, and because School Research Plans reach a wider audience, it was decided that this information should not be included or reported on in School Research Plans going forward.

**Action:** The completion of Section 5 of the School Research Plan review template will be optional going forward. The column '2020 RPTL Status' referencing individual's achievements in relationship to the RPTL will be removed completely. In addition, Section 5 will be moved to the end of the template and will form an appendix, rather than its own section in the body of the plan. When Tūāpapa Rangahau communicates with Schools about the review of their plans, they will be advised that they are welcome to remove the appendix, which is currently section 5, in the interests of brevity if they wish, or Arun Deo will update it according to the latest data on request.

#### Section 3: Strengths, Weaknesses, Opportunities, Threats (SWOT) Analysis

- It was felt that the committee should be paying particular attention to Schools' SWOT analyses. Responses should be collated and thematically linked so the committee can lobby on behalf of Schools to instigate change and reduce the impacts of any weaknesses and threats identified, as per its Terms of Reference.

**Action:** Marcus Williams will undertake a review of School Research Plans' SWOT analyses and report back to the URC for discussion at next month's meeting.

The committee agreed that the proposed deadline for Schools to report against their plans (late June) is achievable.

### **Section 4.2                      2021 Unitec Research Symposium**

The committee discussed the date and structure for the 2021 Unitec Research Symposium. A summary of the discussion is as follows:

- Tūāpapa Rangahau has additional resource to assist with the organisation of this year's symposium.
- The committee would like to see a dedicated stream of presentations of Pacific research from Pacific and non-Pacific staff. The Pacific team at Unitec works closely with MIT and would like to see participation from MIT in this year's symposium.
- The fact that presentations could be entered into ROMS as non-QA outputs and counted towards the RPTL seems to have attracted more submissions last year.
- It was queried whether there could be a selection process for abstracts, meaning outputs produced would be QA. Clear parameters around the requirements of abstracts would be required and teams of reviewers with relevant expertise would need to be assembled. This would take a lot of resource. Conversely, maintaining the symposium as a showcase for all-comers is valuable and it would be good to keep barriers to participation low.
- The committee was supportive of having the symposium open to external participants.
- The committee was open to the symposium being co-hosted by either MIT and/or NorthTec, but noted that logistically it would be easier to have two co-hosts, rather than three, and that a co-host would have to have meaningful input into the organisation and running of the symposium. If the symposium is co-hosted, the committee would prefer that it is hosted at Unitec, as travel can be a barrier to Unitec staff participation.
- There was general support for the symposium to be held in early December, however it was noted that this timing does not suit postgraduate students and therefore the 3MT would need to be held separately from the symposium. There were mixed feelings about this, as the 3MT is a popular part of the symposium.
- If the symposium is held over two days again, the timing should be consecutive.

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## SECTION 5 - NGĀ TUKUNGA | ITEMS TO RECEIVE

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### **Section 5.1                      Update: 2025 PBRF Quality Evaluation**

The Committee noted the update from TEC on the 2025 PBRF Quality Evaluation.

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## SECTION 6 - KUPU WHAKAMUTUNGA | CLOSING

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### **Section 6.1                      Ētahi Kaupapa Anō | Any Other Business**

A tabled item, "Definition of an Early Career Researcher at Unitec", was presented by Helen Gremillion for approval.

It was proposed that researchers who have completed a minimum 90 credit Master's thesis should not automatically be considered to be ECRs. There are a number of staff who complete their Masters and then join Unitec more than 10 years later. Only then might they become the first author of a disseminated quality assured research output, yet as they are no longer within the 10 year timeframe, they do not then meet the current definition of an ECR at Unitec.

Clarification was sought about the eligibility for ECR funding for a researcher that meets both criterion but perhaps met the first criterion 12 years ago and the second criterion eight years ago. In

this case it was proposed that whichever criteria is met first, the 10 year window will start from then.

Clarification was also sought about researchers who may have published as a primary author while a student and whether this means they meet the second criteria or not. It was agreed that the second criteria would only be met where the output was produced outside of a supervised environment.

Following the above discussions, the committee agreed to the following revised definition:

*An **ECR** at Unitec lies between ‘emerging/beginner’ and ‘senior/advanced’. An ECR is within 10 years (prior to the closing date for full applications for ECR funding) of becoming an ‘independent’ researcher, which is defined as **one or both of the following, whichever comes first**:*

1. *A researcher who has been awarded a PhD or a professional doctorate with a significant research component.*
2. *A researcher who has been the primary author of **an independently investigated (i.e. unsupervised)**, disseminated quality assured research output. This criterion excludes conference presentations and typically also excludes very short written outputs.*

*Time taken for parental leave is not counted as part of the 10-year window (i.e. one year of parental leave would extend the eligibility period to 11 years since achieving criterion 1 or 2). Note that other forms of extended leave may be considered by negotiation with Tūāpapa Rangahau.*

#### **MOTION**

**That the committee approves the revised definition of an ECR at Unitec.**

**Moved: Helen Gremillion**

**Seconded: Maryam Mirzaei**

**MOTION CARRIED**

## **Section 6.2 Komiti Self-Assessment**

It was noted that the actions arising from today’s meeting around the use of School Research Plans and the work that is going to be undertaken on Schools’ SWOT analyses demonstrates the committee’s commitment to continuous improvement in its operations.

The Chair reminded the committee that additional feedback can be emailed to himself or the Secretary following the meeting (in confidence if requested).

## **Section 6.3 Karakia Whakamutunga | Closing Karakia**

**TE KARAKIA WHAKAMUTUNGA**

*Ka wehe atu tātou  
I raro i te rangimārie*

**ENDING PRAYER**

*We are departing  
Peacefully*

<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>

<b>MEETING CLOSED:</b> 1435 h
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### SUMMARY OF ACTIONS

Agenda Item	Action	Responsible	Outcome
2.3	Add text around the KPI associated with Priority One to the School Research Plan reporting template.	Marcus Williams	
2.3	Discuss whether the statistics the subject librarians keep on their research related interactions would be useful for School Research Leaders.	Susan Eady/ Arun Deo	
4.1	The completion of Section 5 of the School Research Plan review template will be optional going forward. The column '2020 RPTL Status' referencing individual's achievements in relationship to the RPTL will be removed completely. In addition, Section 5 will be moved to the end of the template and will form an appendix, rather than its own section in the body of the plan. When Tūāpapa Rangahau communicates with Schools about the review of the plan, Schools will be advised that they are welcome to remove the appendix, which is currently section 5, in the interests of brevity if they wish, or Arun Deo will update it according to the latest data on request.	Arun Deo	
4.1	Undertake a review of School Research Plans' SWOT analyses and report back to the URC for discussion at next month's meeting.	Marcus Williams	

### MATTERS ARISING

Agenda Item	Action	Responsible	Outcome
2.3	Add text around the KPI associated with Priority One to the School Research Plan reporting template.	Marcus Williams	Complete
2.3	Discuss whether the statistics the subject librarians keep on their research related interactions would be useful for School Research Leaders.	Susan Eady/ Arun Deo	Complete. The members have had a brief verbal communication on this matter and will look into it further when time permits.
4.1	The completion of Section 5 of the School Research Plan review template will be optional going forward. The column '2020 RPTL Status' referencing individual's achievements in relationship to the RPTL will be removed completely. In addition, Section 5 will be moved to the end of the template and will form an appendix, rather than its own section in the body of the plan. When Tūāpapa Rangahau communicates with Schools about the review of the plan, Schools will be advised that they are welcome to remove the appendix, which is currently section 5, in the interests of brevity if they wish, or Arun Deo will update it according to the latest data on request.	Arun Deo	Complete
4.1	Undertake a review of School Research Plans' SWOT analyses and report back to the URC for discussion at next month's meeting.	Marcus Williams	Complete

## Unitec New Zealand Limited

### Unitec Research Committee

13 May 2021

<b>Title</b>	Analysis of SWOT Sections of 2020 (Degree) School Research Plans
<b>Provided by:</b>	Marcus Williams – Director Research and Enterprise
<b>For:</b>	<b>Discussion</b>

### Recommendation

That the committee considers a summary of Strengths, Weaknesses, Opportunities and Threats (SWOT) and any potential response.

### Purpose

The purpose of this paper is to ascertain what actions are needed, if any, in response to the SWOT analyses developed by Schools where degrees are taught, as part of School Research Plans.

### Background

Schools developed research plans in 2020 for the first time since before the transformation. The Unitec Research Committee is determined that these remain living documents which are reviewed regularly and have initiated a School Research Plan Review process. This review of the SWOT analyses undertaken by Schools in 2020 is another manifestation of this determination toward continuous improvement.

### Next Steps

Review the key themes emerging from the plans, determine any actions required and implement these actions.

*NB – Some of the threats and opportunities are more or less within the scope of the committee's influence. Those points where actions which could be considered as more within the committee's potential to change, improve or advocate, have been highlighted.*

### Contributors

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Marcus Williams – Director Research and Enterprise

Arun Deo – Research Adviser

### Attachments

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SWOT Analysis Summary

## **SWOT Analysis Summary**

### **Strengths**

- » Industry collaborations (strong, long-term, robust, relationships)
- » Staff expertise (diverse range, in discipline)
- » Collaborative research initiatives
- » Postgraduate programmes foster research culture
- » Research (strong research culture, research active staff, management support, support from Research office, established and new and emerging researchers, diversity of research areas, strong publication record, green lit programmes)
- » Staff experience with grant applications
- » Successful externally funded research projects

### **Weaknesses**

- » Workload (high teaching and administration loads of key researchers, constrained time)
- » Postgraduate (lack of scholarships, declining student numbers, programmes taught out, no postgraduate qualifications, lack of mechanisms to promote enrolment, limited resources to promote research culture, lack of subject discipline staff)
- » Category 3 rating
- » Lack of institutional stability
- » Low public profile
- » Financial constraints ( equipment, facilities, dissemination)
- » Collaboration (Non collaborative research initiatives, lack of collaboration with other schools)
- » External funding ( no expertise, high level of rejections in funding applications, limited opportunities and competing with universities)
- » ITP not viewed as positively as University
- » Staff ( High Staff turnover due to programs teach out, Leading to upskilling new staff, Small number of staff in each discipline)
- » Data & resources (difficulty in accessing data, barrier to data analysis software, limited access to academic journals databases and quantitative databases)
- » Low staff/student integrated research
- » Limited domestic opportunities for research dissemination

### **Opportunities**

- » Development (research capability and conduct research, postgraduate programmes, co-lab, foci potential)
- » Collaborations (linked to research groups, team approaches to research projects, Student-and-staff collaborative research projects (create opportunities), within and outside the organisation, industry, NZIST partnerships, NZIST may create new opportunities for research collaboration)
- » Research culture (grow, link with postgraduate programmes, Research into innovative online pedagogies)
- » Research (cultural and environmental research, Research projects connected with profession and academia,

- » New staff bring new stakeholder contact
- » Increase QA outputs
- » External funding ( grow, create opportunities, attract)
- » Increasing availability of virtual conferences
- » Chance to be a leader in the discipline
- » To take greater advantages of Unitec research office initiatives (e.g. Symposia, writing retreats, ECR meetings...)

### **Threats**

- » Low student numbers affect viability of some programmes and retention of research staff
- » Disruptions (Potential disruption from NZIST transition, Covid19 disruptions and uncertainties (e.g. cancelation of conferences, impact on workloads)
- » Research time (reduction, High teaching and increasing administrative workloads competing with research time for academic staff)
- » Competition (Highly competitive tertiary providers)
- » Reduction in PBRF related funding in the next round due to departure of PBRF rated staff
- » Staff reducing workloads and/or retiring
- » Postgraduate(Declining student numbers, loss of degree courses, success and retention rates, programme structure)
- » Retention of high performing staff
- » Universities setting up research centres
- » Need for fit for purpose facilities in the near future

## Unitec New Zealand Limited

### Meeting of Unitec Research Committee

13 May 2021

<b>Title</b>	Annual Research Centre Reports
<b>Provided by:</b>	Marcus Williams – Director Research & Enterprise
<b>For:</b>	<b>INFORMATION</b>

### Recommendation

That the Committee receives annual Research Centre Reports from the Applied Molecular Solutions Research Centre (AMS), the Environmental Solutions Research Centre (ESRC) and Ngā Wai a Te Tūi Māori and Indigenous Research Centre (NwaTT).

### Background

The Research Centre Procedure requires Unitec Research Centres to report annually to the URC. Reports will include:

- a) performance against forecast budget and outputs; and
- b) evidence of external funding applications.

### Purpose

Unitec's Research Centre Procedure requires all Unitec Research Centres to report annually to the Committee.

### Attachments

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Annual Research Centre Report – AMS

Annual Research Centre Report – ESRC

Annual Research Centre Report - NwaTT

## Unitec Research Centre Reporting Template

<b>Research Centre:</b>	Applied Molecular Solutions Research Centre
<b>Centre Director:</b>	Associate Professor Dan Blanchon

**Outline any variations to the vision, mission, aims, priorities and/or distinctiveness of the Centre:**

No variations have been made.

**Vision Mātauranga aims “to unlock the innovation potential of Māori knowledge, resources and people to assist New Zealanders to create a better future”. Provide an overview of how the Centre has responded to this kaupapa:**

AMSRC partners closely with ESRC and the School of Environmental and Animal Sciences (EAS) in this space. EAS has a history of appointing Unitec Honorary Research Fellows to help us to learn about and understand Māori perspectives, to better partner and collaborate. Previously Dr Nick Waipara and the late Kamera Raharaha were appointed, and Hema Wihongi is our latest appointment. Dr Waipara is an active collaborator in the climbing asparagus and asbestos projects.

More recently for the asbestos project (combined ESRC and AMSRC), we have sought collaboration with mana whenua in the Nelson region to work with them in the asbestos deposits in the Cobb Valley area. We have held discussions with Wakatū Incorporated (made up of four hāpu from the top of the South Island) to look at possible collaborative opportunities. Connected with this, we made contact with Mana Whenua ki Mōhua (Ngāti Rārua, Ngāti Tama and Te Ātiawa) whose rohe contains the asbestos mine. Peter de Lange and Dan Blanchon were invited to a hui with them on March 31<sup>st</sup> 2020 where we discussed the project and sought collaboration. They supported this in principle and were enthusiastic about collaboration and potentially holding some wānanga. Our preference is to have representatives of the mana whenua as team members to make their kaitiaki role easier and to share knowledge (including Mātauranga Māori if appropriate), and would seek to build this into a future MBIE application (for a Research Programme).

Dr Terri-Ann Berry and I have approached Nga Wai a te Tūi about the possibility of collaborating in the indoor air quality/HRV project. The asbestos “lockout” has delayed this discussion from progressing.

**Summarise any opportunities afforded to students to be involved in the Centre and its activities:**

As well as credit-bearing student research projects, four student internships were offered in 2020. Lilith Fisher had two internships (one with Dr Dan Blanchon working on climbing

asparagus biocontrols and the other working with Dr Sarah Wells on marine isopods), Luzie Schmid worked with Dr Dan Blanchon and Dr Peter de Lange on disease diagnostics on native karamu, and Holly Goodman worked with Dr Marleen Baling on molecular tools to detect parasites in native reptiles.

**Outline any changes pertaining to the management and operation of the Centre, including to the Centre's Advisory Board and personnel working in or with the Centre:**

Two new staff were appointed in 2020, funded by Tuapapa Rangahau/Unitec. Dr Marleen Baling was appointed as a researcher (ex-Massey University), working on reptile conservation and disease screening, and taking a lead role in the HRV project. Tianyi Tang was appointed as a research associate, coming to us from Plant and Food Research Ltd, where he worked on vineyard diseases. Tianyi is mainly working on the climbing asparagus biological control and HRV indoor air quality projects. Dr Sarah Wells returned from maternity leave mid-2020, applied for and received funding from the Unitec ECR Post-Parental Leave Fund for her research project titled 'Phylogenetics of the New Zealand endemic *Isocladus* marine isopods'. After getting through to the second round of the Marsden Fund in 2020, Sarah Wells submitted an application for a 2021 Marsden Fund as a co-PI in collaboration with Professor James Dale at Massey University, Dr Nikki Freed at the University of Auckland, and Professor Stephen Shuster from the University of Northern Arizona.

**Outline any changes to the Centre's research streams/themes:**

No significant changes were made.

**Outline any changes to the Centre's internal and external partnerships/collaborations, highlighting any new partnerships/collaborations that have been made:**

The internal and external partnerships outlined in the AMSRC Centre Application are still active. In addition, relationships with Auckland Zoo, the Moth and Butterflies Trust of NZ, HRV, Wakatū Incorporated, and Mana Whenua ki Mōhua have either been developed or strengthened.

**Please list all submitted and successful external funding applications (a spreadsheet or similar can be appended if easier):**

Funding source	Amount applied for	Project	Result
2019 MBIE Endeavour Fund: Smart Ideas	NZ\$1,150,000	Asbestos (with ESRC)	Delayed due to Covid, resubmitted, <i>unsuccessful</i> . Will be resubmitted 2021
2019 MBIE Endeavour Fund: Smart Ideas	NZ\$2,000,000	Erionite (with ESRC)	<i>Successful</i> but withdrawn
2019 Kate Edgar Post-Doctoral Awards	NZ\$16,000	UVB-exposed invertebrates as an effective vitamin D dietary supplement for captive animals	<i>Unsuccessful</i>

2020 Zonta Science Award	NZ\$18,000	Effect of predation on prey camouflage at translocated sites	<i>Unsuccessful</i>
2020 HRV	NZ\$70,000	Toxic moulds in homes (with ESRC)	<i>Successful</i> , now requesting additional funding to expand project (NZ\$60,000)
2020/2021 Marsden Fund (Sarah Wells co-PI, with Massey University)	NZ\$900,000 excl. GST across three years	Evolutionary maintenance of extreme colour polymorphism in a New Zealand marine isopod	<i>Successful</i> past first round, second round application <i>submitted</i> .
2020 Morris Animal Foundation	US\$10,800	UVB-exposed invertebrates as an effective vitamin D dietary supplement for captive wild animals'	Applied 2019 <i>Successful</i>
2020/2021 Moths and Butterflies Trust of New Zealand	NZ\$2,000	Forest ringlet butterfly DNA analysis	<i>Successful</i>
2021 ECR Research Fund (Unitec)	NZ\$18,270	Testing the feasibility of identifying reptile species using eDNA from tracking tunnels	Applied 2020 <i>Successful (2021)</i>

**Please report on the Centre's annual budgeted versus actual income from the year of commencement of the Centre to the year ended 31 December 2020 (expand the table accordingly, or alternatively this information can be appended if you have it in a different format):**

<b>Income Source</b>	<b>Year Ending</b>	<b>Budgeted Income \$</b>	<b>Actual Income \$</b>
Auckland Council (Biocontrol, Diane Fraser)	December 2020	\$10,000	<b>\$22,700*</b>
Taxonomy (Landcare - Peter de Lange)	December 2020	\$21,000	<b>\$21,000</b>
Auckland Council (Climbing asparagus – Dan Blanchon)	December 2020	\$63,660	<b>\$63,660</b>
DoC (Taxonomy of Leptospermum) – Peter de	December 2020	\$115,000	<b>\$115,000</b>

Lange			
Ministry for the Environment (MfE) - Asbestos (with ESRC)	December 2020	\$13,526	<b>Unknown**</b>

**Briefly account for any difference between budgeted and actual income:**

\*Auckland Council pledged \$10,000 for biocontrol internships and then allocated a further \$12,700 to us (RE20021 and RE 20022).

\*\*AMSRC provides the molecular biology and microbiology elements of the ESRC-led asbestos bioremediation project (funded by the Ministry for the Environment). A portion of the funding is allocated for AMSRC but it is not clear where this portion of the funding has ended up in Unitec's accounts.

**If there is anything else you wish to report, please do so here:**

- We were fortunate to receive funding from Tuapapa Rangahau for the acquisition of a real-time PCR machine (CFX Connect Real-Time PCR detection system). This piece of equipment (similar to those used in the detection of Covid-19) will allow us to quantify the amount of DNA present in a sample (will be used in HRV project initially).
- AMS staff produced 18 peer-reviewed written outputs in 2020, and four posters and one presentation at the Unitec Research Symposium. Publications covered a range of topics including lichens, *Cannabis*, weeds, asbestos bioremediation, indoor air quality, isopod genetics, skink colouration and the human oral biome.
- Before the first Covid-19 lockdown we demonstrated the use of PCR and gel electrophoresis in a workshop for the Girl Guides (21<sup>st</sup> January 2020) and Y13 Mt Albert Grammar School (3<sup>rd</sup> March 2020) in the AMS lab.
- We produced online workshop videos for the Science Teacher Conference (8<sup>th</sup> November 2020):
  - "Investigating human ancestry using mitochondrial DNA": <https://youtu.be/8yaElg26vvE>
  - Tour of AMS laboratory: <https://youtu.be/Uj5qf-OymuE>
  - "Applications of DNA barcoding: identifying biocontrols": [https://youtu.be/\\_bh7FPZyum8](https://youtu.be/_bh7FPZyum8)
- We started an EAS/AMS youtube channel, which includes teaching on molecular lab techniques: [https://www.youtube.com/channel/UCFV8iivDiW\\_OrZn2vEaVxZA](https://www.youtube.com/channel/UCFV8iivDiW_OrZn2vEaVxZA)

Please email your completed Research Centre Report to [bmassey@unitec.ac.nz](mailto:bmassey@unitec.ac.nz) before **Friday, 30 April 2021**.

## Unitec Research Centre Reporting Template

<b>Research Centre:</b>	Environmental Solutions Research Centre
<b>Centre Director:</b>	Dr Terri-Ann Berry

### **Outline any variations to the vision, mission, aims, priorities and/or distinctiveness of the Centre:**

The Environmental Solutions Research Centre was designed to foster transdisciplinary industry engaged research to tackle waste and pollution challenges to improve environmental outcomes in New Zealand. This vision has not changed since its creation in 2019.

### **Vision Mātauranga aims “to unlock the innovation potential of Māori knowledge, resources and people to assist New Zealanders to create a better future”. Provide an overview of how the Centre has responded to this kaupapa:**

ESRC partners closely with AMSRC and the School of Environmental and Animal Sciences (EAS) in this space. EAS has a history of appointing Unitec Honorary Research Fellows to help us to learn about and understand Māori perspectives, to better partner and collaborate. Previously appointed Dr Nick Waipara is an active collaborator in the asbestos research.

More recently, we have sought collaboration with mana whenua in the Nelson region to work with them in the asbestos deposits in the Cobb Valley area. Members of the wider ESRC team (Dr Dan Blanchon and Dr Peter De Lange) have held discussions with Wakatū Incorporated (made up of four hāpu from the top of the South Island) to look at possible collaborative opportunities.

Connected with this, contact was made with Mana Whenua ki Mōhua (Ngāti Rārua, Ngāti Tama and Te Ātiawa) whose rohe contains the asbestos mine. Peter de Lange and Dan Blanchon were invited to a hui with them on March 31st where the project was discussed and collaboration sought. They supported this in principle and were enthusiastic about collaboration and potentially holding some wānanga. Our preference is to have representatives of the mana whenua as team members to make their kaitiaki role easier and to share knowledge (including Mātauranga Māori if appropriate), and would seek to build this into a future MBIE application (for a Research Programme).

In addition, Dr Dan Blanchon and I have approached Nga Wai a te Tūi about the possibility of collaborating in the indoor air quality/HRV project. This could involve working with the development of a sustainable community based in Taumarunui managed by Rihi Tenana and Catherine Page.

### **Summarise any opportunities afforded to students to be involved in the Centre and its activities:**

Final year project students from the Civil Engineering BEngTech degree qualification have been involved in research in fulfilment of course MG7101 (Engineering Development Project). This year, we have Vibesh Bhawan working on the development of an Indoor Air Quality Index using low-cost sensors designed and created at Unitec. These sensors will be used for an externally sponsored project (HRV) to determine the impact of mechanical

ventilation systems on health outcomes. In 2020, Esha Marcella completed her final year project at Focus Analytics laboratory where she investigated the types and sources of asbestos in asbestos contaminated soils in NZ and Alex Bu carried out plastic audits for the plastic minimisation construction project with Naylor Love, Mitre 10 and Green Gorilla's (sponsored by Auckland Council).

**Outline any changes pertaining to the management and operation of the Centre, including to the Centre's Advisory Board and personnel working in or with the Centre:**

New ESRC members include Min Hall, Renata Jadresin-Milic and Matthew Bradbury.

The advisory board comprises Marcus Williams, Hadley Brown, Nick Sheppard, Irene Kereama-Royal, Heather Stonyer & Nigel Ironside. Formerly, Dr Jacquie Reed was a member of this board but has since left Unitec. Core ESRC personnel originally included Dr Terri-Ann Berry, Shannon Wallis and German Hernandez. New personnel have since joined the team, including Yanina Purcell, Joanne Low and Harriet Omondiagbe. David Poyner also joined ESRC on a temporary basis.

External personnel Dr Jennifer Salmond and Dr Kim Dirks have left the ESRC team.

**Outline any changes to the Centre's research streams/themes:**

The Research Centre aims to investigate ideas and concepts under two main themes: Waste and Pollution. Current activity within these fields includes:

**Waste:** asbestos awareness, asbestos bioremediation, waste minimisation and plastic reduction in construction.

**Pollution:** air quality, indoor air pollution and investigating freshwater pollution at Unitec.

There have been no changes to these themes.

**Outline any changes to the Centre's internal and external partnerships/collaborations, highlighting any new partnerships/collaborations that have been made:**

New potential collaborations with University of Torino (asbestos), Paul Charteris (Proprietor Saveboard), Pamela Bell (Abodo) and Ger Tew (Proprietor: The ReCreators). Unfortunately, the long-term collaboration with UoA has now ended but we are excited to be more involved with the asbestos industry (including NZDAA) and the waste minimisation community in New Zealand (including Sustainable Business Network and Auckland Council). ESRC has been invited to submit an application to MfE for our plastic minimisation research which will be considered under either Waste Minimisation Fund (WMF) or Plastic Innovation Fund (PIF) schemes later in 2021.

**Please list all submitted and successful external funding applications (a spreadsheet or similar can be appended if easier):**

WMF asbestos bioremediation project 2018/2019 – Awarded

Smart Ideas asbestos project 2019/2020 – Funding round – cancelled

WMIF plastic minimisation construction project 2019/2020 – Awarded

Endeavour erionite project 2020 – Awarded

HRV indoor air quality 2020 – Awarded

WMIF contaminated soils 2020/2021 - not successful

WMIF Asbestos Awareness 2020/2021 - not successful  
 Smart Ideas asbestos project 2020/2021 – not successful

**Please report on the Centre's annual budgeted versus actual income from the year of commencement of the Centre to the year ended 31 December 2020 (expand the table accordingly, or alternatively this information can be appended if you have it in a different format):**

<b>Income Source</b>	<b>Year Ending</b>	<b>Budgeted Income \$</b>	<b>Actual Income \$</b>
MFE Asbestos - RE19007	2019	\$5,000.00	\$5,000.00
ChemCare - RE19033	2019	\$5,000.00	\$5,000.00
MFE Asbestos - RE19007	2020	\$121,810.25	\$121,810.25
ChemCare - RE19033	2020	\$0	\$930.00
Auckland Council - RE20002	2020	\$26,000.00	\$26,000.00
UOA - RE20008	2020	\$38,500.00	\$21,982.00

**Briefly account for any difference between budgeted and actual income:**

None

**If there is anything else you wish to report, please do so here:**

Please email your completed Research Centre Report to [bmassey@unitec.ac.nz](mailto:bmassey@unitec.ac.nz) before **Friday, 30 April 2021**.

## Unitec Research Centre 2020 Annual Report

<b>Research Centre:</b>	Ngā Wai a Te Tūi Māori & Indigenous Research Centre
<b>Centre Director:</b>	Prof. Jenny Lee-Morgan
<b>Reporting Period:</b>	1 <sup>st</sup> January – 31 <sup>st</sup> December 2020

**Outline any variations to the vision, mission, aims, priorities and/or distinctiveness of the Centre:**

<b>Whakakitenga: Our Vision</b>
<p>He pukenga wai, ka puta he tāngata.</p> <p>He pukenga rākau, ka puta he kōrero.</p>

<b>Whakatakanga: Our Mission</b>
<p>To lead innovative kaupapa Māori research that contributes to te puna mātauranga and supports flourishing whānau, hapū, iwi, marae and Māori communities.</p>

<b>Ngā Whāinga: Our Goals</b>
<ol style="list-style-type: none"> <li>1. To sustain sources of mātauranga.</li> <li>2. To activate Kaupapa Māori research with communities.</li> <li>3. To provide rangahau opportunities that enable intergenerational knowledge transmission.</li> </ol>

**Vision Mātauranga aims “to unlock the innovation potential of Māori knowledge, resources and people to assist New Zealanders to create a better future”. Provide an overview of how the Centre has responded to this kaupapa:**

Ngā Wai a Te Tūi still continues to lead transformative and innovative Māori and Indigenous research that respond to the needs and aspirations of whanau, hapu, marae, iwi and communities. To this end, we have developed partnerships with Māori and stakeholders to progress research project, and extend our network and influence. Ngā Wai ā Te Tūi has also become a source of mātauranga within the context of Te Whare Wānanga o Wairaka, evidenced in the number of internships and the postgraduate support work we do across schools within the institution through MAI ki Wairaka funded by Ngā Pae o te Maramatanga.

### **Summarise any opportunities afforded to students to be involved in the Centre and its activities:**

Ngā Wai ā Te Tūi has enabled opportunities for students to be involved within our Kaupapa Māori research projects. These students have come onboard as interns that assist in the progress of specific projects. As a part of their internship, students work alongside our leading supervisors and researchers, collaborating with iwi, hapu, and communities around contemporary issues and developing research and mātauranga to benefit all parties involved.

Kelsey Metcalfe - Summer Intern, MOKO research project, MAI ki Wairaka Student Lead

Hanna-Marie Monga - Summer Intern, MOKO research project

Maia Wilson - Summer Intern, MOKO research project, UIKI Internship

Jacqueline Paul - Masters Scholarship, MOKO research project

Ngā Wai ā Te Tūi also initiated MAI ki Wairaka that became part of the MAI Te Kupenga network, funded by Nga Pae o te Maramatanga. This programme extended our reach and support of Māori postgraduate students within Unitec and in other institutions. Our activities included:

- Kaupapa Māori Theory and Methodology with Prof Jenny Lee-Morgan
- Kaupapa Māori and Architecture with Rau Hoskins
- Te Reo Māori and Research with Dr Jen Martin
- Tane Talks with Eruera Lee-Morgan
- 2 x writing wānanga

### **Outline any changes pertaining to the management and operation of the Centre, including to the Centre's Advisory Board and personnel working in or with the Centre:**

No change

### **Outline any changes to the Centre's research streams/themes:**

Given the multiplicity of projects that span a range of disciplines, we have identified three key streams of work to ensure that the projects form a coherent programme of work, and optimise and develop staff expertise. These are:

<b>Wairua (Visionary)</b>	<b>Waiora (Sustainability)</b>	<b>Wai Māori (Authenticity)</b>
<ul style="list-style-type: none"> <li>• Healing</li> <li>• Potential &amp; Innovation</li> </ul>	<ul style="list-style-type: none"> <li>• Education</li> <li>• Justice</li> <li>• Health</li> <li>• Housing &amp; Wellbeing</li> </ul>	<ul style="list-style-type: none"> <li>• Te Reo me ngā Tikanga</li> <li>• Te Taiao</li> </ul>

### **Outline any changes to the Centre's internal and external partnerships/collaborations, highlighting any new partnerships/collaborations that have been made:**

Ngā Wai a Te Tūi is honoured to have been successful in achieving a large number of research proposals over the course of the year. These research opportunities established some new and significant collaborations with key organisations including the Ministry of Business, Innovation and Employment through their Endeavour and Vision Mātauranga Capability Funds; the National Science Challenge - Building Better Homes, Towns and Cities; University of Waikato; Ngā Pae o te Māramatanga and the Auckland Uniservices.

Kaupapa Māori is fundamental in all of our research, where the aim is to seek positive outcomes and collaborative advantages for whānau and community wellbeing. Being involved in our communities and having extensive and strong relationships with marae, iwi, hapū and Māori organisations throughout Tāmaki Makaurau is therefore critical to the success of our research. Most importantly recognising our existing relationships with mana whenua Tainui and Ngāti Whātua through our involvement with Makaurau marae, Te Puea Memorial marae and Ngāti Whātua ki Ōrakei as well as our personal connections to iwi.

The Marae Ora, Kāinga Ora research project collaborated with five marae based in South Auckland. This partnership was formally recognised with the signing of an MoU with each of the five marae and celebrated inside Ngākau Māhaki, Te Noho Kotahitanga marae with over 100 people in attendance. The five marae include:

- Makaurau Marae, Ihumātao, Mangere (mana whenua)
- Manurewa Marae, Manurewa (mātāwaka)
- Papakura Marae, Papakura (mātāwaka)
- Mataatua Marae, Mangere (taura here)
- Papatūānuku Kokiri Marae, Mangere (mātāwaka)

### **Conferences/Symposiums:**

The impact of Covid during 2020 caused many conferences and symposiums to be cancelled or rearranged to be held online. Despite this Ngā Wai a Te Tūi, in between lockdowns, were able to host and attend a number of conferences and wānanga throughout the year. These included:

- UN Special Rapporteur Housing Visit with Leilani Farha, Māori Outcomes Meeting at Ngā Wai a Te Tūi, Feb 2020
- Marae Ora, Kāinga Ora (MOKO) Project Launch and MoU signing at Ngākau Māhaki, March 2020
- He Waka Eke Noa Regional Hui, Te Tai Tokerau, March 2020
- He Waka Eke Noa Regional Hui, Taranaki, March 2020
- Auckland Māori Housing Summit, Tāmaki, March 2020
- National Māori Housing Conference, Hawkes Bay, May 2020
- Marae Ora, Kainga Ora Research wānanga, Tāmaki, August 2020
- Tāne Talks online webinar, Oct 2020
- Unitec Research Symposium, Oct 2020
- He Waka Eke Noa Regional Hui, Wairoa, Nov 2020
- Tū Tama Wāhine Masterclass Conference, Taranaki, Nov 2020
- Te Rā o Te Rangi Hīroa Celebration Wānanga, Taranaki, Nov 2020
- Ngā Pae o Te Māramatanga Indigenous Research Conference, online, Nov 2020
- Māori Kaitiakitaka Research Symposium, Otago Polytechnic, Dec 2020

**Contribution to internal committees:**

The Director of Ngā Wai a Tūi, Prof Jenny Lee-Morgan, contributed as a member on the following:

- Early Research Career Assessment Committee - not sure the name of this, might need to look back at my emails from Brenda Massey
- Member of the Extended Leadership Team
- Te Rōpū Mataara, Unitec Māori staff collective

Rihi Te Nana is a Māori representative and member of the Unitec Research Ethics Committee and also the Chairperson of Te Rōpū Mataara, the Unitec Māori staff collective.

Ngahuia Eruera is a member of the Unitec Kaitiaki Rōpū.

Please list all submitted and successful external funding applications (a spreadsheet or similar can be appended if easier):

Project Code	Project Title	Research Objective/Impact	Contract Start date	Contract End date
RE17008	Te Manaaki o te Marae	The impact of this research is multiple and multi-dimensional. Documenting and analysing the radical innovation initiated at Te Paea 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.	14-08-2017	30-07-2019
RE18014	Tukua ki te Ao	This research is an investigation on the subjective motivations of organisations to implement te reo Māori within their workforce, and shall produce a comprehensive research report that informs Te Taura Whiri i te reo Māori of the key findings, policy implications and recommendations on implementing the learnings to support the revitalisation of te reo Māori. This would include 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.	10-12-2018	30-06-2019
RE18018	Poipoia Te Kakano Kia Puawai	This 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.	07-01-2019	30-06-2019
RE19002	Showcasing Decolonizing Research: Indigenous Storywork as Methodology	To host and showcase 'Decolonizing Research: Indigenous Storywork as Methodology' and acknowledge the support of Ngā Pae o te Māramatanga and the Event Support Grant.	14-01-2019	31-12-2019
RE19004	Pūrakau - "Te Manaaki o Te Paea Memorial Marae".	This project aims to support the creation of stories, content and audio/visual development, supply of supporting photography and other imagery, podcast content, teacher support materials writing, along with QA, cultural consultation and review for the web platform bringing to life 'Te Manaaki o Te Paea Memorial Marae'.	01-02-2019	26-08-2019
RE19010	Urban Intergenerational Kāinga Innovations	This research project will support and examine the diverse range of circumstances of four Auckland urban marae (mana whenua, taura here and mataawaka) and their potential to provide sustainable housing interventions and support the holistic dimensions of kāinga. This will be undertaken through holding hui directly with both the governance and management of the marae along with wānanga within their communities to broaden the kāinga innovation learnings and to build new agency relationships and industry participation. For example, Marae in central Auckland city sit at the extreme end of urban density issues and face some of the highest real estate prices for bare land in the country. Their ability to broach those issues during a housing crisis demonstrates their resilience and the diversity of issues that marae are facing, in one city. Through nationally convened wānanga, we will share synergies and programme learnings with other NSC and KTKR program leaders.	01-07-2019	10-12-2019

Project Code	Project Title	Research Objective/Impact	Contract Start date	Contract End date
RE19028	He Waka Eke Noa: Prevention and Intervention in Family and Sexual Violence for Māori	‘He Waka Eke Noa’ investigates the role of Māori cultural approaches to violence prevention and intervention. The research is a Kaupapa Māori research project that focuses on Māori understandings of family and sexual violence. International research indicates that culture can be an effective ‘buffer’ in the area of family and sexual violence prevention and healing trauma. Our approach provides a broad view of violence that captures the complex factors that contribute to the prevalence of violence within, and upon Māori communities. The research will investigate a range of explanations for violence in Aotearoa, both individual and collective, and ways through which culture can inform the development of successful approaches to violence reduction. This project has been developed collaboratively with Māori healers, social workers and counsellors who have wide-ranging involvement and knowledge in working with whānau who have been impacted by either family or sexual violence.	01-10-2019	30-09-2022
RE19027	Puni Reo: Normalising Māori Language in new domains	The aim of this kaupapa Māori research project is to investigate the potential of Puni Reo to normalise te reo Māori in their activity-based communities. The objectives of this kaupapa Māori research project is three-fold: 1. To develop the theory and practices of Puni Reo; 2. To better understand the impact and potential of Puni Reo as an innovative Indigenous innovation in the field of language revitalisation; and 3. To develop a framework for the success and sustainability of Puni Reo in Aotearoa New Zealand within the discipline of sports other sport and other everyday activities in wider society, with the potential to be adapted and developed with other Indigenous languages.	06-01-2020	30/12/2020 Ext 28/02/2021
RE19026	Marae Ora, Kainga Ora	This kaupapa Māori research will be based with five marae (mana whenua, taura here and mātāwaka marae) and the super-diversity of communities in South Auckland that are Māori and Pasifika population rich. The key aims of this project are to enable marae to utilise the findings of this research to develop sustainable marae-led kāinga initiatives in and with their communities, and to provide insights, influence and opportunities for others, in particular external agencies and services, to achieve greater outcomes and collaborative advantages for whānau and community wellbeing. The multiple research methods include pūrākau (case study type) narrative inquiry in each marae; co-created marae feasibility studies; statistical analysis of Statistics NZ data; survey of whānau and other households in South Auckland of connectedness to local marae (n=750), individual and focus group interviews (n=230), hui (n=18), and wānanga (n=9).	01-10-2019	30-09-2022
RE20007	UIKI Tranche 2	The overall aim of the UIKI research programme is to investigate the potential of kāinga innovations to support intergenerational Māori housing aspirations and the diverse needs of whānau, hapū, iwi and marae in Tāmaki Makaurau. Through a series of kaupapa Māori projects UIKI will contribute new pathways to support Māori housing outcomes. The UIKI programme is made up of four research strands (projects) that, like a whāriki are intricately woven together to meet the strategic research area outcomes of Kāinga Tahi, Kāinga Rua, Building Better Homes, Towns and Cities: 1. Te Whare Kāhui: Design and delivery of affordable, culturally responsive marae-based housing solutions - led by Rau Hoskins 2. Marae ki te Kāinga: Re-establishing home and re-connecting to community - led by Rihi Te Nana 3. He tātai whetu ki te rangi, he rangatahi ki te kāinga: Rangatahi pathways to safe, secure and affordable homes - led by Jacqueline Paul 4. Kāinga Rawa: Innovative financial model solutions to low income home ownership - led by Irene Kereama-Royal.	01-04-2020	31-03-2024

Project Code	Project Title	Research Objective/Impact	Contract Start date	Contract End date
RE20009	NZ Family Violence Clearinghouse	This short but very important contract is with the New Zealand Family Violence Clearinghouse (NZFVC) and the University of Auckland. The overall aim of this contract is to review material received from government and non-government agencies for placement on the NZFVC Covid-19 Kaupapa Maori page and provide a response to NZFVC as soon as possible of receiving such material. NWATT will utilise their networks to source and forward other relevant material to NZFVC to be uploaded to the Kaupapa Maori page as this becomes available.	01-04-2020	31/05/2020 Ext 30/09/2020
RE20010	MAI ki Wairaka	Te Kupenga o MAI supports Māori and Indigenous post-graduate student's success. The MAI programme (Te Kupenga o MAI) is a nationally organised network comprising key sites established throughout Aotearoa New Zealand. It forms an integral part of Ngā Pae o te Māramatanga's activities and goals and the achievement of capability building outcomes. MAI is focused on the specific student support requirements and models and accelerated development of Māori and Indigenous students to ultimately foster success of MAI students and enhance the number of Māori Doctoral graduates.	30-04-2020	30-06-2021
RE20011	Mana Kāinga: Advancing capability in the Māori Housing Sector	This kaupapa Māori research project, in partnership with Te Matapihi (Māori Housing Network) aims to bring together a range of highly motivated and skilled stakeholders to collectively progress a range of strategic action plans, to forge a comprehensive Māori Housing Curriculum. The curriculum intends to weave a set of key learning and development priorities, build capacity and capability within the Māori Housing Sector, and embed active enablers. This proposal is for full curriculum development, an adjoining implementation plan, and an emerging pilot module. Commitment to developing impact within this sector that layers 'cross sectoral plans' and pushes 'beyond boundaries' capability development is of both lateral and in-depth scale in this field. The ultimate reach therefore is a vision to create ample Māori capability within the housing sector and supporting the advancement of Māori outcomes across the housing continuum. In turn, this project is not confined to the Māori Housing sector alone, but impacts systemically across multiple housing domains.	01-06-2020	01-06-2021
RE20012	Hihiko o Mangarautawhiri: Power sovereignty for a prosperous whānau and hapū	The aim of this kaupapa Māori research project is to explore sustainable energy options for the Te Mangarautawhiri a Pukehou Trust. This research is a response to the excessive electric power and lines costs that whānau and hapū have paid since 2007. These outrageous power costs are compromising the health wellbeing of whānau. The Te Mangarautawhiri a Pukehou Trust, who are members of Ngāti Hinemihi (NH), have chosen to partner with NWATT to develop this research project on behalf of their hapū. The Hihiko o Mangarautawhiri project will employ a kaupapa Māori methodology to embed the exploration of sustainable and clean energy options for Te Mangarautawhiri a Pukehou Trust. This placement will identify how new clean technologies can sustain our whānau and hapū whilst creating job opportunities in a low-socioeconomic community. This research will contribute to the development of the strategic plan and investment delivery framework.	01-06-2020	30-11-2021

Project Code	Project Title	Research Objective/Impact	Contract Start date	Contract End date
RE20023	<b>A Māori Modern Learning Environment: Ko te Akā Pūkaea kia ita, ko te Akā Pūkaea kia eke!</b>	This kaupapa Māori project investigates the ways in which two Māori-medium pathways (bilingual and immersion) work together in a newly built Flexible Learning Space (FLS) to progress Te Reo Māori and the aspirations of whānau. This project is interested in how this 'space' is understood and utilised by the teachers, students and whānau, between the two pathways, as well as in the wider English-medium primary school context. This pūrākau case-study approach takes a strengths-based approach, and is based on the experiences of Te Akā Pūkaea, Newton Central School.	18-01-2021	31-12-2023
RE21003	<b>Auckland DHB</b>	This kaupapa Māori project shall facilitate two full-day wānanga with Ngāti Whātua and Auckland DHB to identify narratives and context relevant to the Grafton site. The project will include: 1. Wānanga # 1: Kaupapa - to locate and ground the wider ADHB development programme within the Mana whenua cultural landscape & Ōranga narratives. 2. Wānanga # 2: Kaupapa - to deepen cultural landscape and Mana whenua ōranga narratives in relation to the proposed new Cancer Unit 3. Preparing an outline for working with mana whenua through the design process so that it can be used as the foundation/table of contents of a design manual. 4. Report and analysis of engagement processes with recommendations on next steps.	22-03-2021	04-07-2021
RE21004	<b>Manaakitanga, A marae response to Covid</b>	This kaupapa Māori research project focuses on manaakitanga as an urban marae response to, and experiences of, COVID-19. This project will produce a series of pūrākau that captures the resilient responses of five marae in South Auckland to COVID-19, as an output of this research project that will form a written publication. These pūrākau will be co-created by the PI Jenny Lee-Morgan and Dr Jo Mane with nominated marae-based researchers. This project is part of a larger research project called Marae Ora, Kāinga Ora (MOKO), an MBIE Endeavour funded research that investigates the potential of five marae to strengthen their provision of kāinga (and community) in the contemporary urban context of South Auckland. These marae are: Papatūānuku Kōkiri; Papakura; Manurewa; Makaurau; and Mataatua. This project extends on this research by focusing on marae responses to COVID-19.	07-04-2021	30-06-2021
RE21005	<b>Te Mana o Rangitāhua</b>	Ngāti Kuri and Auckland Museum have an established iwi-science partnership which we here extend to a pristine island environment to inform Aotearoa New Zealand's environmental wellbeing frameworks. This research aim focuses on realising the vision and aspirations of Ngāti Kuri for Rangitāhua by understanding the patterns of history - to know what has been, what is, and to charter new courses of action towards a resilient conservation framework. Ngāti Kuri will explore and reflect on history and consider their collective aspirations to enable a clear and concise future focused approach. Connecting with scientists, stakeholders and community will ensure transformative translation of research into environmental practice and outputs for Rangitāhua.  Collectively this research aim will document and disseminate Ngāti Kuri taonga tuku iho. This will establish critical knowledge for enabling iwi-led islandscape wellbeing. A kaupapa Māori approach will describe the social history and geographies of Ngāti Kuri. Methods employed include: wānanga; whakawhiti whakaaro, tipu haere and will facilitate opportunities for place-based storywork.	01-01-2021	30-09-2025

Please report on the Centre's annual budgeted versus actual income from the year of commencement of the Centre to the year ended 31 December 2020 (expand the table accordingly, or alternatively this information can be appended if you have it in a different format):

Project Code	Project Title	Partner/Funder	Contract Total (ex GST)	TOTAL INCOME	PROJECT STATUS
RE17008	Te Manaaki o te Marae	National Science Challenge BBHTC	\$ 993,291.00	\$ 993,291.00	Complete
RE18014	Tukua ki te Ao	University of Waikato	\$ 42,554.00	\$ 42,554.00	Complete
RE18018	Poipoia Te Kakano Kia Puawai	National Science Challenge BBHTC	\$ 69,605.00	\$ 69,605.00	Complete
RE19002	Showcasing Decolonizing Research: Indigenous Storywork as Methology	Ngā Pae o te Māramatanga Knowledge Event Support Grant Outcome	\$ 8,400.00	\$ 8,400.00	Complete
RE19004	Pūrakau - "Te Manaaki o Te Puea Memorial Marae".	Cognition Education	\$ 36,100.00	\$ 36,100.00	Complete
RE19010	Urban Intergenerational Kāinga Innovations	National Science Challenge BBHTC	\$ 79,900.00	\$ 79,900.00	Complete
RE19028	He Waka Eke Noa: Prevention and Intervention in Family and Sexual Violence for Māori	MBIE Endeavour Fund	\$ 2,160,384.00	\$ 1,620,288.00	60%
RE19027	Puni Reo: Normalising Māori Language in new domains	Ngā Pae o te Māramatanga Seeding and Scoping New Research	\$ 59,950.00	\$ 59,950.00	95%
RE19026	Marae Ora, Kainga Ora	MBIE Endeavour Fund	\$ 3,527,403.00	\$ 3,527,403.00	50%
RE20007	UIKI Tranche 2	National Science Challenge BBHTC	\$ 1,500,000.00	\$ 1,500,000.00	20%
RE20009	NZ Family Violence Clearinghouse	Auckland Uniservices Ltd	\$ 6,081.25	\$ 6,081.25	Complete
RE20010	MAI ki Wairaka	Ngā Pae o te Māramatanga Te Kupenga o MAI	\$ 15,000.00	\$ 15,000.00	95%
RE20011	Mana Kāinga: Advancing capability in the Māori Housing Sector	MBIE Te Pūnaha Hihiko Vision Mātauranga Capability Fund	\$ 100,000.00	\$ 100,000.00	80%
RE20012	Hihiko o Mangarautawhiri: Power sovereignty for a prosperous whānau and hapū	MBIE Te Pūnaha Hihiko Vision Mātauranga Capability Fund	\$ 172,199.00	\$ 172,199.00	60%
	<b>TOTAL as at 31/12/2020</b>		<b>\$ 8,770,867.25</b>	<b>\$ 8,230,771.25</b>	

**Briefly account for any difference between budgeted and actual income:**

N/A

**If there is anything else you wish to report, please do so here:**

Please email your completed Research Centre Report to [bmassey@unitec.ac.nz](mailto:bmassey@unitec.ac.nz) before **Friday, 30 April 2021**.

## Te Komiti Rangahau o Unitec | Unitec Research Committee Self-Assessment

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**Purpose:** NZQA requires the Committees of Unitec's Academic Board to provide evidence of self-assessment.

### Te Komiti Rangahau o Unitec Self-Assessment Provocations

- Can we improve the way the committee is run?
- Is time well managed?
- Are issues under discussion well-handled and resolved?
- Are the agenda and minutes well handled?
- Are the perspectives of committee members respected and heard?
- Are actions completed and accounted for?
- Were there matters raised and dealt with in the meeting that were particularly helpful or unhelpful?
- Does the committee oversee and ensure compliance within its mandate?
- Does the committee show foresight and proactively engage in continuous improvement?
- Does the committee review and improve the relevant policies, guidelines and regulations?