

Postgraduate Certificate in Connected Environments

PROGRAMME INFORMATION PACK

The first postgraduate certificate in Aotearoa to focus on using IoT technologies for business insight and better outcomes, everyday.



Contents

4

An overview of Connected Environments

5

What you'll learn

6

What you'll gain

7

Who it's for

8

Why it's important

9

Programme details

10

Meet our team

13

What the 34 weeks looks like

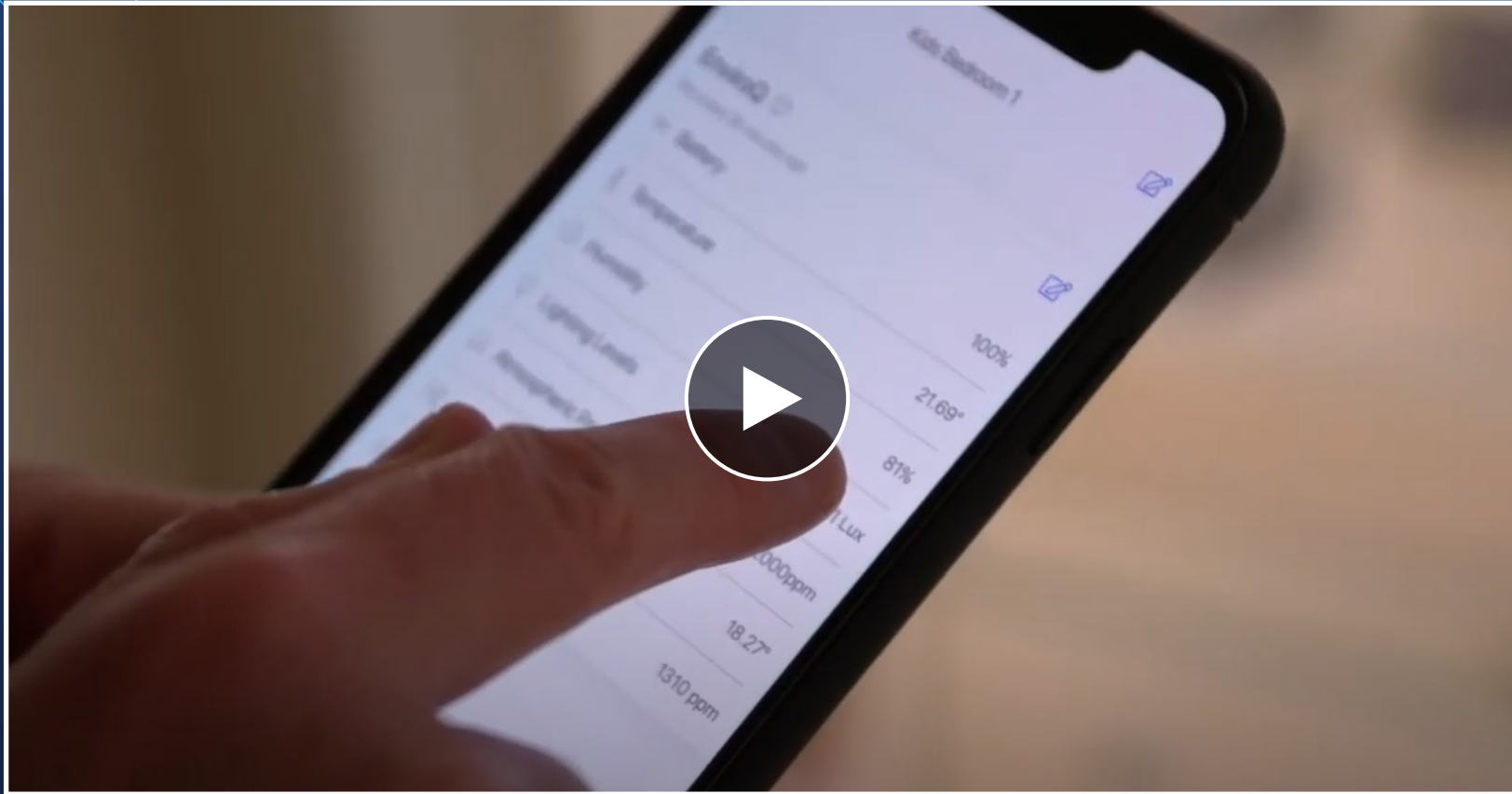
14

About Tech Futures Lab

15

FAQs

Watch this video to hear Brandon van Blerk from Tether share his idea of what a connected home environment could offer.



An overview of Connected Environments

The Postgraduate Certificate in Connected Environments is a 34-week part time, NZQA accredited programme. A practical hands-on programme that integrates business and data strategies using Internet of Things (IoT) technologies.

Developed in consultation with leading industry experts, it's designed to help businesses and entrepreneurs surface untapped insight within their environments, using IoT technologies, to create additional value, more efficiency and better outcomes.

The potential application of IoT systems and connected environments spans a broad range of industries and sectors. This programme will develop technical

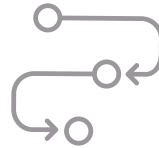
capabilities and applied knowledge in business management and governance principles. Graduates will be equipped with robust planning, design, development and implementation strategies for IoT systems that deliver better efficiency, smarter decision making and deeper actionable insight, for the business and its customers.

What you'll learn



Connected Environment Technologies

Learn about IoT devices and how to layer it up with machine learning, automation and AI to deliver faster, more streamlined products or business processes.



Data Strategy

Find out how to apply a strategic lens on data gathering and insight to identify potential gains, improvements and opportunities for better experiences and outcomes.



Business management and governance

Identify the right processes, ethical frameworks and governance models to support your business implement and maintain sustainable IoT systems that are valued as a core source of insight and action.



Spark^{nz}

IoT

Tech Futures Lab is proudly partnering with Spark New Zealand to deliver the Postgraduate Certificate in Connected Environments. This partnership will enable students to work with connectivity hardware and have access to IoT industry knowledge and expertise.

What you'll gain

1

The ability to
**evaluate the multiple
dimensions of connected
environments,**
how to integrate
existing products into,
or create new ones for,
connected systems.

2

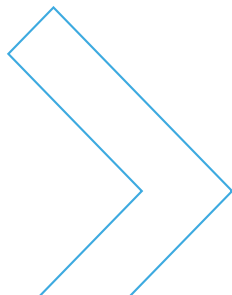
Hands-on experience
with IoT devices,
automation, machine
learning and AI.

3

You'll know how to
**identify and extract
data insight**
that adds actionable
value for many business
environments and
industries, including the
one you work in.

4

**A project roadmap
and business case**
that's ready for
development
and delivery in your
business context.



Who it's for

If you,

- Want your business, organisation or agency to unearth and maximise the value of the data insight you hold.
- Want to do things smarter and more efficiently to continuously deliver better experiences and outcomes for your stakeholders and customers.
- Recognise the potential for people to be more creative and focus on true improvement by allowing technology to handle information exchange and production processes.
- Can see opportunities to improve workplaces, community spaces and environments using smart connectivity.



Why it's important

Data is the currency of today's digitally-led world. The challenge is not to just gather data, but to tap into it to find insight that will deliver additional value to your business, your customers and the wider community.

The rise of connected environments will be exponential - aided by faster networks, slicker technology and sophisticated data modelling. Businesses must now learn how to strategically harness these enablers using a Connected Environments strategy that can create real economic and social impact.

“

The practicality of digital systems connected to the physical world is now very real - we see more being done everyday to address opportunities and challenges all around us. The Postgraduate Certificate in Connected Environments is designed to educate and support professionals to ready themselves and create solutions inspired by their own experience.

John McDermott

Founder of Boat Secure, IoT advocate and Industry Advisor on the Postgraduate Certificate in Connected Environments.

”

Programme details

First intake

17 September 2020
34 week course,
completed in
May 2021

Second intake

17 November 2020
34 week course,
completed in
August 2021

Time requirement

34 weeks, part time.
You'll need to dedicate:

2hrs each week,
4-6pm for live-online
facilitated sessions
Thursdays (first intake) or
Tuesdays (second intake)

14hrs each week
of applied hands-on
self-directed learning, plus
additional preparation and
collaboration work.

6 full day
face to face workshops,
spaced out over the course
of the programme.

Location

The 6 full day
face to face workshops
will be run on site at
Tech Futures Lab.
99 Khyber Pass Road,
Grafton, Auckland.

The weekly live-online
sessions are delivered
through Zoom.

Cost

\$5,980 (incl GST)

We have four [scholarships](#)
available that cover 50% of the full
tuition fees.

- Tangata Whenua Scholarship -
For learners who identify as Māori.
- Pacific Ako Scholarship -
For learners who identify as
Pacific Island descendants.

Postgraduate students
are eligible to apply for
[StudyLink Student Loans](#).

You may be eligible for [Fees Free](#).

This applied practical programme
is valuable professional and
business development, consider
talking to your organisation to
assist with funding.

[Contact us](#) to talk through some of the options.

Meet our team



John McDermott

- Industry Advisor

John is an IoT innovator, founder of the popular IoT Auckland meetup group and a member of the executive council of the NZ IoT Alliance.

John has a mission to assist entrepreneurs, developers and users to maximise benefits and value from IoT opportunities with a goal of making New Zealand a world leader in IoT applications.

John is working with Tech Futures Lab to deliver the Postgraduate Certificate in Connected Environments, to provide business leaders with the skills and knowledge to create advantage and positive outcomes in their organisations.

John is also the founder of BoatSecure, an IoT business providing remote monitoring of recreational boats in marinas and on moorings for boat owners.

Meet our team



Hayley Sparks
- Academic Manager

Hayley has been with Tech Futures Lab for over two years and holds many vital roles in the organisational academic quality space, as well as acting as an advisor to students to support them through their learning journey. Hayley will be the key point of contact for Connected Environments students, participating in sessions and working behind the scenes to ensure quality industry expert input into the programme. Hayley holds a Doctorate in Geography.

“

I am excited to be embarking on this journey alongside our students to explore how connected environments provide the opportunity for people, places, objects, data, and knowledge to be connected, shared and analysed to inform effective and efficient decision making.

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Programme facilitators



Priti Ambani



Rich Rowley



Taurean Butler



Felix Scholz

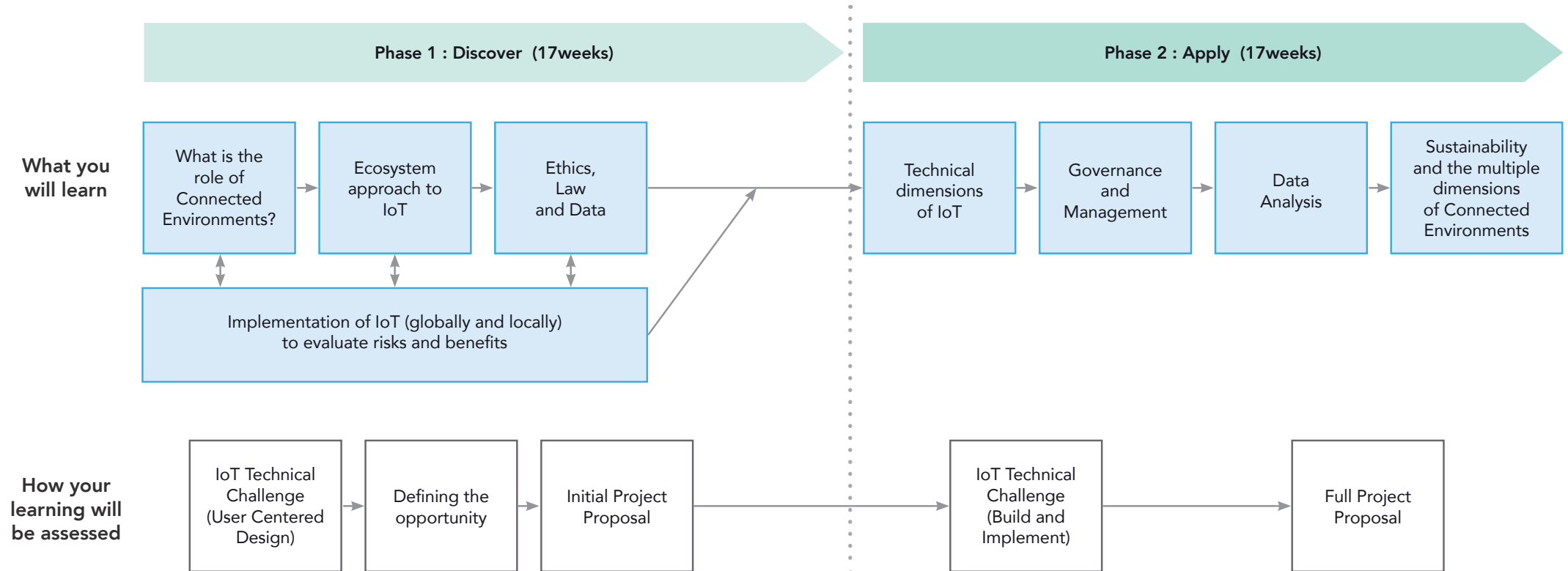


Masha Mohaghegh

Industry companies consulted on programme design:

Auckland Council • Auckland Transport • Beca • Callaghan Innovation • Tether • Spark New Zealand • Kordia • Optima • Waste Management

What the 34 weeks looks like



About Tech Futures Lab

We're educators, but not as you might know them. We are recognised as thought-leaders and practitioners in disruption and innovation, the future of work and business. Our large partner network enables those we work with to tap into the most contemporary thought and practice in business, technology and innovation.

We're about the human angle in this era of massive technological change. How can we leverage our human potential for positive impact? How do we need to think and work differently to address the massive social, economic and environmental challenges our world is facing? How do we break away from outdated, legacy ways of doing and forge new, collaborative, regenerative practices for us and our planet?

We are committed to making a difference for your career, for your organisation, for society, for the world.

A division of The Mind Lab. The Mind Lab is an NZQA registered Tertiary Education Organisation under the provisions of the Education Act 1989. Tech Futures Lab candidates enrol with our sister company, The Mind Lab, which is approved by NZQA to award this qualification.



FAQs?

1. What can I take back to my business or community to prove the value of this programme?

During the programme you will create a strategic, well-researched, detailed and practical Connected Environment project using IoT to implement in your chosen environment. The programme is hands-on, so you will work through your specific project and apply everything you learn as you go.

2. Do I have to be in Auckland to enrol in this programme?

No. This programme is offered all across Aotearoa, however there is a commitment to 6 x face-to-face sessions at our lab in Auckland, roughly every 6-8 weeks during the programme. See our [education handbook](#) for details.

3. What is the time commitment per week?

This programme requires an average of 18 hours per week, which is made up of a 2 hour live, facilitated online session, with the remainder self-managed learning.

4. How much of my real life experience and practice am I able to apply to my study?

We value real-world experience as highly as an academic record. If you don't have the stated qualifications to apply for this programme but have similar levels of professional experience in your life or career, equivalent eligibility is considered by our National Academic Director. Equally, your real-world experience and knowledge of your field of expertise or passion are vital in your study on this programme. You will be using this, combined with the skills and process of the programme, to build an effective IoT strategy. One of the kaupapa maori values we use to guide our teaching and learning is ako; which is the notion of effective teaching interactions and strong positive relationships being fostered through knowledge exchange. We want to learn from you as part of this process.

5. Are there scholarships available?

Yes. We have four [scholarships](#) available that cover 50% of the full tuition fees.

- Tangata Whenua Scholarship - For learners who identify as Māori.
- Pacific Ako Scholarship - For learners who identify as Pacific Island descendants.

6. Do I need to be working to enrol in this programme?

Not at all, you just need to have a project in mind or an environment/ situation you can see would benefit from implementing a Connected Environment IoT strategy.

7. Can you do this programme and not have a specific project to work on?

Absolutely, but you will need to develop one early on in the programme, we can work with you to do this.

8. Do you have to be a techie to do this programme?

No, you'll be introduced to the range of IoT technologies in the Discover phase (first 17 weeks). But having a passion for using tech to drive change is important - this programme is about balancing the tech with the business or organisational goals to deliver positive outcomes.



Want to talk with us?

If there's any questions you've got, we're here to help answer them.

Visit us

99 Khyber Pass Road, Grafton,
Auckland, New Zealand

Call us

Talking it out can help.
Get in touch direct on **09 522 2858**

Email us

If you'd rather jot your questions
down in writing, flick us an email to
info@techfutureslab.com

Join a Virtual Open Lab

A great chance to meet the team,
and get more detail on the programme.

Check our Events page at
techfutureslab.com
for the next Virtual Open Lab.