2025 PROSPECTUS

Your IT career starts here

Koinei te tīmatatanga o tō huarahi ki te ao matihiko

techtorium®

NEW ZEALAND INSTITUTE OF INFORMATION TECHNOLOGY


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Creating IT professionals through excellence in education

Te whakatipu kaimahi hangarau ngaio mā te huarahi ako hiranga

Kia Ora & welcome!

We're thrilled to invite you into the vibrant world of computer engineering and programming. At Techtorium, we believe that today's innovators and problem-solvers shape the future of technology. We are excited to introduce you to our diploma courses, which are designed to equip you with the skills and knowledge needed to excel in this ever-evolving field.

In a time when technology impacts every industry, the demand for skilled professionals in computer engineering and programming has never been greater. Our Diploma programmes are carefully designed to provide not just foundational knowledge but also hands-on experience that will give you an edge in the competitive job market. We emphasise practical learning through industry-relevant projects and real-world applications, preparing you not just for today's challenges but for the advancements of tomorrow.

Our commitment to excellence extends beyond our curriculum. We maintain strong connections within the IT industry ensuring that our programmes remain relevant and responsive to the latest technological trends. These relationships offer you valuable networking opportunities and access to real-world projects that can open doors to exciting career paths.

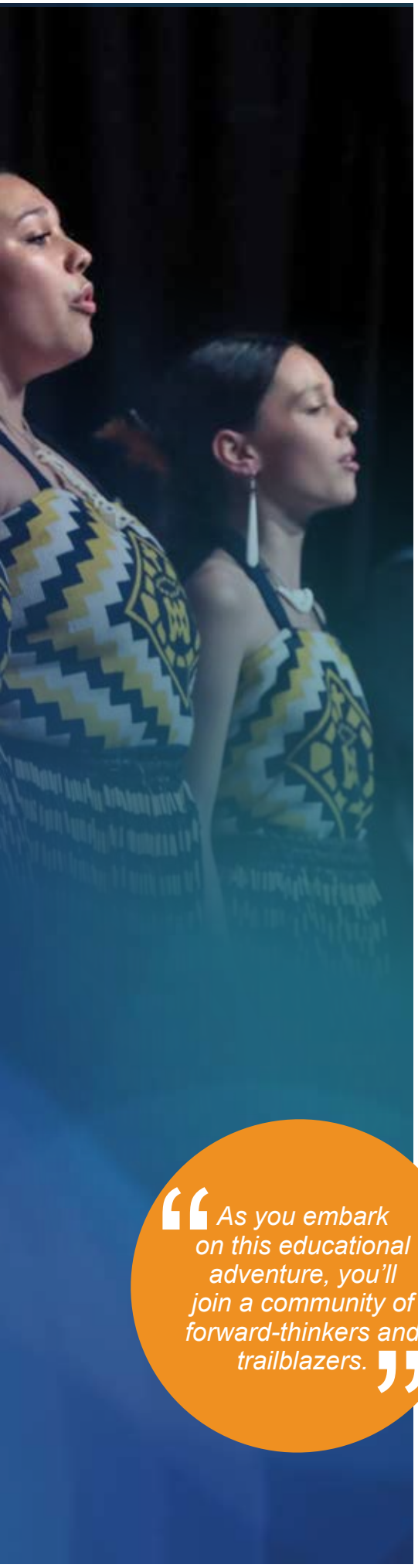
Choosing the right educational path is a significant decision, and we are here to support you every step of the way. Our dedicated team are passionate about guiding you through an enriching and empowering learning experience. Our trainers bring a wealth of industry experience and academic expertise, ready to mentor and inspire you throughout your journey.

As you embark on this educational adventure, you'll join a community of forward-thinkers and trailblazers. We're excited to support you in reaching your full potential and achieving your career goals. The skills and knowledge you gain here will empower you to make meaningful contributions to the ever-evolving tech landscape.

Thank you for considering Techtorium as your next step. We look forward to welcoming you and helping you unlock your potential in the world of computer engineering and programming.

Nga mihi

JAN HUTCHINSON
Chief Executive, Techtorium



"As you embark on this educational adventure, you'll join a community of forward-thinkers and trailblazers."

Contents

Why study with us?

Our students come from all parts of New Zealand. When arriving at Techtorium you will see young, energetic Kiwis sharing their passion for technology.

Training IT Professionals

Since 2004 the philosophy behind Techtorium has remained the same – creating IT professionals through excellence in education. New Zealand is experiencing a digital uprising and the IT industry is one of the country's fastest-growing sectors.

The demand for young IT graduates is extremely high and assures positive long-term job success. According to the NZ Tech Industry Association, there are more than 28,000 companies employing more than 100,000 people in IT, and the number is steadily growing.

Key areas such as software development, IT support/ helpdesk and cloud technology – which are all taught within our courses – are the top 3 most in-demand skills in the IT industry. Everything is now product, app, design, and user-experience-driven. It is no longer good enough to have something that just works, it needs to look marketable, be user-friendly, and most importantly, be a platform to realise a commercial outcome.

Techtorium in partnership with Workforce Development Councils is continually adapting course content to reflect 'real life' industry requirements. As a small provider, we can quickly respond to the needs of industry and our employment partners. You'll be ahead of the pack in terms of knowledge and experience when you enter the job market.

1000+ Graduates Since 2004

Course Completion

88%

Qualification Completion

83%

Further Higher Education or Employment

94%

Innovative Learning Environment (ILE)

Our learning spaces reflect that of the real world working environment. ILE means no lecture theatres and no walls. You can expect to work collaboratively, sharing ideas with your classmates. Our ILE promotes discussion and thinking critically in a way classroom-based courses usually do not.

Following recommendations from our industry advisors, here are some of the reasons why we have implemented this learning environment:

- An ILE is designed to promote critical thinking and high-level reasoning.
- Teaching and learning are collaborative.
- Collaboration with your classmates is encouraged.
- Learners work together, sharing ideas.
- Our BYOD (bring your own device) environment allows students to study from any location.

Vocational 'Real World' Education

Our courses are designed to give you the right skills for the job. Skills that will help you stand out from other candidates. Skills that put you ahead of the rest. You learn by doing – our courses are practical and hands-on to make you employable.

A typical programme at Techtorium will be in an open-space room. Once you understand the lesson, you'll get straight into practice! One hands-on lesson after another, you'll soon be growing your base in practical skills and be ready to become an IT professional.

Student Life

We are geeks! Techtorium is ground-zero for people who get excited about how computers, networks and computer programmes can create a better world.

Like-minded people

We're a bunch of like-minded people who share a passion for all things digital, and we've created the ultimate hub for those who want to be a part of the excitement. We aim to recruit the most passionate IT students in New Zealand.

Moving into tertiary study is a major step. That's why Techtorium has a Student Engagement team to help students settle in and thrive in our environment as smoothly as possible.

> "I enjoyed meeting like-minded people at Techtorium. I have made life-long friends that I would never have met otherwise. Working on projects with my mates was pretty cool."
>
> ***Devlyn Papa***
> ***Techtorium graduate***

Newmarket Campus

NEWMARKET IS YOUR CAMPUS!

Newmarket is a hub for IT and technology. Our campus is surrounded by industry partners, plus you'll have access to gyms, cinemas, VR arcades, and Westfield Newmarket. What's more, the campus is a quick train ride from Auckland's CBD.

Student Engagement is focused on enhancing student learning by providing a healthy, engaging and inclusive culture to ensure every student achieves.

We do this by:

- Proactively engaging with students and providing regular opportunities for the student voice to be heard
- Supporting students in their professional development journey and encouraging students to embrace their individuality
- Promoting a positive and inclusive culture
- Developing and participating in initiatives that focus on health and wellbeing
- Respecting the diversity of our staff and students
- Cultivating positive workplace habits such as reliability, punctuality and working to deadlines
- Delivering development workshops to build stronger life and employability skills throughout the year. These include: study skills, communication, CV building, driver's license, goal setting, interview skills, professionalism and wellbeing.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Industry Pathways

- **Communication**
- **Critical Thinking**
- **Self-management**
- **Presentations**
- **Project Management**
- **Professional Etiquette**
- **Teamwork**

The IT industry is always evolving. With the emergence of new technologies, we keep our finger on the pulse to ensure you have the right skills.

Techtorium is flexible in responding to these changes to maintain the relevance of our graduates in the job market. This is just one aspect of the work done in our Industry Pathways team.

Now into its 21st year of training IT professionals, Techtorium continues to see outstanding levels of success in our graduates finding fulfilling, relevant employment. Our continuous collaboration with the IT industry (with companies such as OneHQ, New Era, CodeBlue etc.) guarantees that we know what is happening in the industry and that students learn employment-centric skills that remain relevant.

STUDENT SUCCESS STORIES

Nathan

Qualification
Level 7 Techtorium Diploma in Cloud Management

Stream
Computer Engineering

Company
CodeBlue

Role
IT Support Engineer

Daniel

Qualification
Level 7 Techtorium Diploma in Cloud Management

Stream
Computer Engineering

Company
Securecom

Role
Service Desk Engineer

Cassidy

Qualification
Level 6 NZ Diploma in Software Development

Stream
Software Development

Company
IoT Ventures

Role
Venture Analyst

HOW DOES INDUSTRY PATHWAYS HELP YOU?

- Equip you with the most in-demand technical skills.
- Deliver workshops to give you confidence and the soft skills employers are looking for.
- Give you the tools you need to craft a winning CV.
- Put you through the paces with a mock interview – making you ready for the real thing.
- Develop an individual plan for your transition into the world of work.
- Get your foot in the door with the best IT companies in the country.

Industry Partners:

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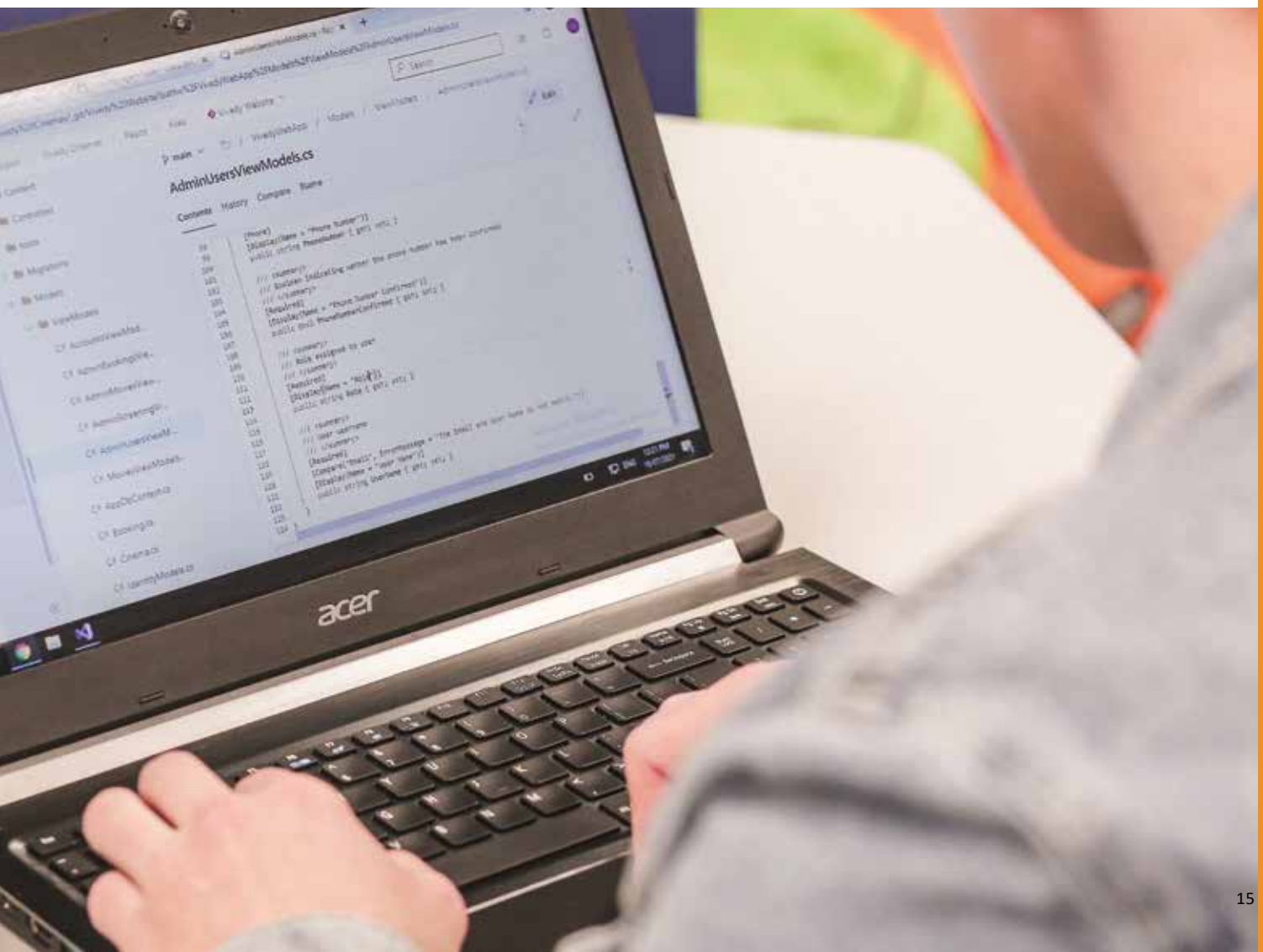
Get in touch!

Niusha
Senior Industry Pathways Manager

Email: learn@techtorium.ac.nz
Phone: 0800 529 7523
Website: www.techtorium.ac.nz

Software Development

By writing lines of code, you can create websites, mobile apps, video games, artificial intelligence, and programme robots – the sky is the limit! Software development is a very creative and innovative field, shaping the technology of tomorrow.

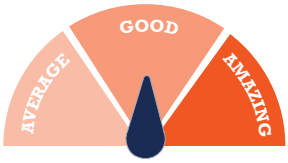

AdminUsersViewModels.cs
acer

L5 New Zealand Diploma in WEB DEVELOPMENT AND DESIGN

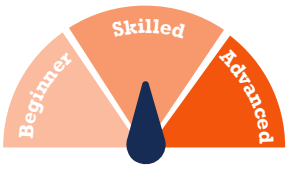
Programme outline:

Term 1:	C# Programming and Design Principles
Term 2:	Front-End Development
Term 3:	Back-End Development
Term 4:	Web Testing and IT Support

Job opportunities



Level of expertise



1 year | Start in February or July | 120 credits | NZQA approved
Fees and start dates available on the Techtorium website: **www.techtorium.ac.nz/need-to-know**

Upon graduation, you will be able to gain entry-level employment in roles such as **junior web developer** or to advance to the second year of our **Level 6 New Zealand Diploma in Software Development.**

Following this one-year diploma, you will be able to:

- Learn C# basics, IDE setup, variables, data types, and programming principles
- Understand conditional and iterative statements, methods, arrays, and lists
- Explore stacks, queues, OOP, data structures, search and sort algorithms
- Get familiar with the .NET framework basics
- Learn UX basics, target audience analysis, and HCI principles
- Understand SDLC and Agile methodologies for web development
- Learn web development fundamentals and tools
- Master HTML and CSS basics, responsive layout design, typography, and forms
- Develop wireframes based on requirement analysis
- Explore ES6, Bootstrap, React basics, and components
- Learn secure coding practices, OWASP Top Ten, authentication, and authorisation
- Gain proficiency in JavaScript basics, functions, control flow, and objects
- Learn backend development basics, databases, and SQL query language
- Practice SQL queries for database administration.

What is a junior website developer?

Kaiwhakawhanake Paetukutuku Teina

Junior website developers create, test, and maintain websites and web applications. They assist in implementing user-friendly designs and ensure that web pages function smoothly across different devices and browsers.

Junior website developers are creative thinkers and skilled problem solvers.

Fees Free* T&C Apply

Become a junior website developer

L6 New Zealand Diploma in SOFTWARE DEVELOPMENT

Programme outline:

Term 1: Python Programming
Term 2: Game Development and Emerging Technologies
Term 3: Mobile App Development
Term 4: Capstone Project

1 year | Start in February | 120 credits | NZQA approved
Fees and start dates are available on the Techtorium website: **www.techtorium.ac.nz/need-to-know**

Upon graduation, you will be able to gain entry-level employment in a role such as **software developer** or **web/app developer.**

Following this one-year diploma, you will be able to:

- Learn Python, starting from fundamentals and progressing through data structures, design patterns, and algorithms
- Build dynamic web applications using the Python Django framework
- Master source and version control with Git, GitHub, and Git Desktop.
- Create 2D and 3D games using Unity and C#
- Dive into Artificial Intelligence, focusing on regression and solving complex problems
- Develop mobile apps with .NET MAUI using XAML and C#, integrating privacy and security best practices
- Understand and apply ethical, legal, and professional requirements in technology
- Gain essential project management skills to keep projects on track
- Learn and implement DevOps practices, including Continuous Integration/Continuous Deployment (CI/CD) with Azure DevOps
- Embrace Agile methodologies to enhance team collaboration and project delivery
- Complete a capstone project by developing a website or mobile app using Django, ASP.NET, or .NET MAUI.

What is a software developer?

Kaihanga Pūmanawa Rorohiko

Software developers and engineers write, test, develop, deploy, and maintain complex computer software programmes.

For example, they may be involved in: developing software that helps doctors and hospitals to manage data and allocate work to different specialists; writing the code that runs on networking devices such as routers and switches; building custom software for business clients; creating mobile applications or writing software for aircraft simulators. There are no limits to what you can do!

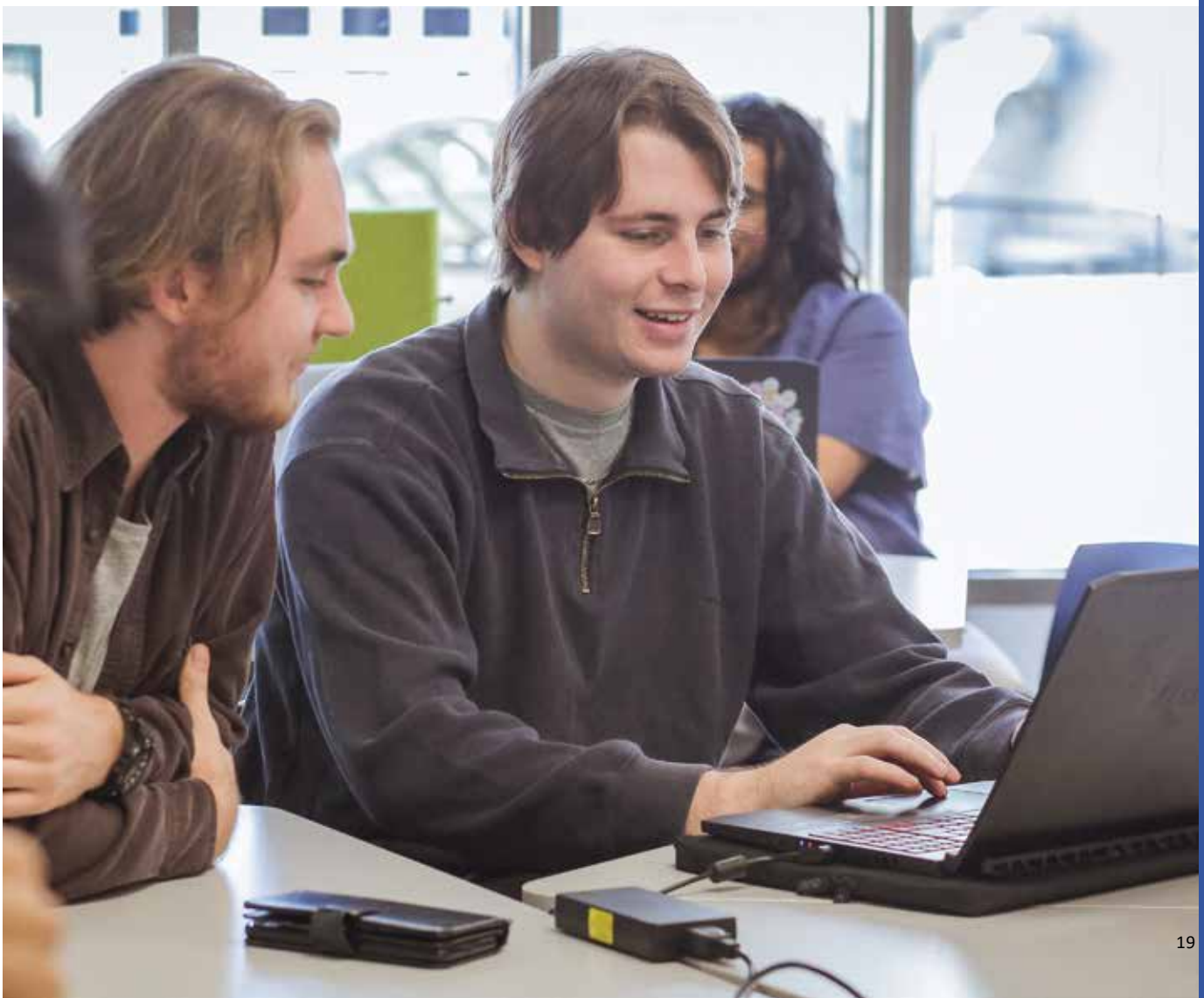
Software developers are creative and have a taste for problem-solving.

Fees Free* T&C Apply

Become a software, mobile app or game developer

Computer Engineering

Computer engineering is the backbone of every business providing connectivity, storage of data, cybersecurity, cloud infrastructure and great customer support.

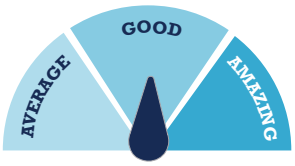


L5 New Zealand Diploma in IT TECHNICAL SUPPORT

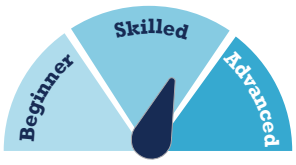
Programme outline:

Term 1: IT Systems and Problem Solving
Term 2: Networking Concepts
Term 3: IT Desktop Support
Term 4: Software Development

Job opportunities



Level of expertise



1 year | Start in February, April, July, or October | 120 credits | NZQA approved
Fees and start dates are available on the Techtorium website: **www.techtorium.ac.nz/need-to-know**

Upon graduation, you will be able to gain entry-level employment in roles such as **helpdesk engineer**, or **desktop support analyst**.

Following this one-year diploma, you will be able to:

- Assemble, repair, and manage computer hardware and network devices
- Understand cloud solutions using Microsoft Azure
- Understand cloud solutions using Microsoft 365, SharePoint, Exchange, Teams, and OneDrive
- Implement cyber security fundamentals
- Troubleshoot networks, configure routers, Wi-Fi, and firewalls
- Configure virtual infrastructure with Microsoft Hyper-V
- Administer databases using SQL server
- Apply fundamental customer service skills
- Use ticketing systems and reporting for helpdesk support
- Develop automation scripts with Windows PowerShell
- Introduction to web development and programming Windows applications using Visual Studio
- Understand modern desktop provisioning
- Understand Linux distros.

What is an information technology technical support engineer?

Kaihangarau Āwhina Hangarau Pārongo

IT support professionals help colleagues, clients, and customers who use computer hardware and software. They also ensure networks and websites are working well. Very often, they work in teams with other IT professionals, such as systems engineers, network analysts and database administrators.

IT technical support technicians are hands-on with good communication skills. They also enjoy working in team environments.

Become a IT technical support technician

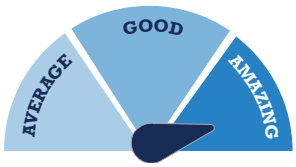
Fees Free* T&C Apply

L6 New Zealand Diploma in IT INFRASTRUCTURE (Systems Administration)

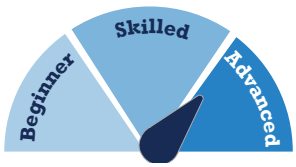
Programme outline:

Term 1:	Virtualisation, Infrastructure Resiliency, Security and Identity Management
Term 2:	Cloud Provisioning and Management, Project Management
Term 3:	Device Deployment, Automation and Management, IT Documentation and Enterprise Work Efficiency
Term 4:	Advanced Networking and Security Solutions, IT Service Management, Ethics and Professionalism

Job opportunities



Level of expertise



1 year | Start in February, April, July, or October | 120 credits | NZQA approved
Fees and start dates are available on the Techtorium website: **www.techtorium.ac.nz/need-to-know**

Upon graduation, you will be able to gain entry-level employment in roles such as **systems administrator** or **network and security consultant**. You may also be eligible for our **Level 7 Diploma in Cloud Management**.

Following this one-year diploma, you will be able to:

- Understand virtualisation technologies such as Hyper-V and cloud infrastructure services provided by Azure IAAS for virtual machine management
- Learn to create a hybrid and secure network across disparate cloud services such as Azure and AWS
- Gain knowledge of AD infrastructure components such as AD, DNS, DHCP, ADCS, DFS, and backups for effective AD management
- Understand identity management using Active Directory (AD) and Entra ID and how to configure user and group management, access control, and authentication
- Learn to manage Exchange Online, a cloud-based email and calendar service
- Harden Entra ID for improved security and compliance using best practices recommended by Microsoft and the IT industry
- Understand cloud provisioning and project management methodologies for effective management of cloud infrastructure
- Learn to deploy and manage Azure Virtual Desktop for virtual desktop infrastructure (VDI) management (DaaS)
- Gain knowledge of Infrastructure as Code (IaC) using Terraform and Ansible for automated infrastructure provisioning.
- Learn to manage billing and cost for cloud services such as Azure and also learn to configure and manage various Microsoft 365 administrative centers such as Microsoft 365 Admin Center, Azure Active Directory Admin, Microsoft Teams Admin, and Microsoft SharePoint Admin.

What is a systems administrator?

Kaiwhakahaere Pūnaha

A systems administrator: plans the implementation of networks and associated server hardware; installs and supports operating systems; makes sure that storage, archiving, and recovery procedures are functioning correctly. They can also train people to use the organisation's computer infrastructure and organise external training programmes, particularly for new software.

Systems administrators require critical thinking and good management skills.

Become a systems administrator

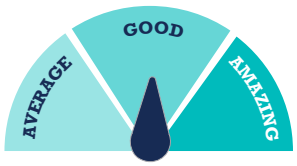
Fees Free* T&C Apply

L6 New Zealand Diploma in CYBERSECURITY

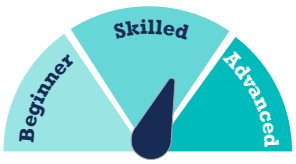
Programme outline:

Term 1:	Strategic Cybersecurity Analysis and Communication
Term 2:	Risk Management, Professionalism, and Ethical Governance
Term 3:	Cybersecurity Application and Communication
Term 4:	Incident Management, Project Leadership, and Regulatory Governance

Job opportunities



Level of expertise



1 year | Start in February, April, July, or October | 120 credits | NZQA approved
Fees and start dates are available on the Techtorium website: **www.techtorium.ac.nz/need-to-know**

Upon graduation, you will be able to gain entry-level employment in roles such as **cybersecurity analyst** or a **security consultant**. You may also be eligible for our **Level 7 Diploma in Cloud Management**.

Following this one-year diploma, you will be able to:

- Data Classification and Risk Assessment: Classify organisational data and assess risks associated with different data levels
- Scenario-Based Risk Assessments: Participate in simulated scenarios to apply learned terminology and identify risks
- Risk Management Frameworks: Learn the significance of risk management in cybersecurity with frameworks like NIST SP 800-37 and ISO/IEC 27005
- Cybersecurity Threats and Vulnerabilities: Differentiate between threats, vulnerabilities, and risks. Examine common cybersecurity threats and vulnerabilities faced by organisations
- Secure Coding Practices: Explore common coding vulnerabilities, such as SQL injection and XSS, and practice coding defensively to mitigate these threats
- IoT and Smart Devices Security: Examine the role of IoT and smart devices in modern security landscapes and implement security measures for these devices
- Security by Design Principles: Learn to integrate “security by design” concepts throughout the system development lifecycle, ensuring robust security from inception to deployment
- Incident Containment, Eradication, and Recovery: Execute containment strategies, eradicate malicious elements, and develop recovery plans.

What is a cyber security analyst?

Kaitātari Whakamarumaru Ātetea

Monitor computer networks for security threats or unauthorised users. Analyse security breaches to identify the root cause and implement preventive measures.

Cyber security analysts require attention to detail and a methodical approach to tasks.

Become a cyber security analyst

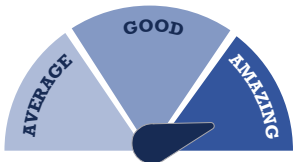
Fees Free* T&C Apply

L7 Diploma in CLOUD MANAGEMENT

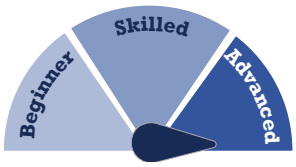
Programme outline:

Term 1:	Enterprise Server Infrastructure
Term 2:	Private Cloud Solutions
Term 3:	Hybrid-Cloud Solutions
Term 4:	Enterprise Project Management

Job opportunities



Level of expertise



1 year | Start in February, April, July, or October | 120 credits | NZQA approved
Fees and start dates available on the Techtorium website: **www.techtorium.ac.nz/need-to-know**

Upon graduation, you will be able to gain entry-level employment in roles such as a **cloud service specialist** or **cloud engineer.**

Following this one-year diploma, you will be able to:

- Provision public cloud solutions that include Microsoft Azure and Amazon Web Services
- Provision Microsoft 365 Solutions including Entra ID
- Implement cybersecurity best practice frameworks
- Receive industry certification training on AZ-900, AZ, 500 MS-900, MS-102, MD-102, SC-300
- AWS-CP102
- Design, install and configure cloud: data protection, automation, management, and monitoring
- Apply service management
- Implement architecture principles and network design
- Implement network discovery and asset management
- Produce enterprise level documentation
- Automation including onboarding and offboarding
- Provision IaaS, PaaS, SaaS based solutions
- Design and implement enterprise messaging solutions with Microsoft Exchange
- Design and implement enterprise collaboration solutions with Microsoft SharePoint
- Implement software defined networks and virtualisation technologies
- Provision modern workplace technologies
- Provide application packaging and deployment solutions
- Understand Linux distros.

What is a cloud services engineer?

Kaiwhakahaere kapua

A cloud services engineer is responsible for the planning, provisioning, testing, administration, troubleshooting and documentation of cloud-based systems.

Cloud engineers have excellent project management skills and attention to detail.

Fees Free* T&C Apply

Become a cloud services engineer

How to Apply

Taking the leap and deciding to invest in your future and study is the hardest part!

Applying for a course with us is easy, just follow these steps.

01 › 02 › 03

Decide on Computer Engineering or Software Development

Look through our website for information on our two programmes **www.techtorium.ac.nz**

Complete your online application

Once you've decided on the programme that is right for you, click enrol!

We'll be in touch

When you have completed your online application, one of our team will be in touch with you. We will need some background information about you and your education (proof of identity and education).

It's that simple!


LEISURE CLUB

Ways to fund your studies

While you're thinking about your study options, you'll also want to know all about the financial support you can get as a student.

Financial Support

It's important to take the time to plan how you'll pay for your study costs and support yourself financially while you study. These are a few of the options available to help you.

StudyLink

StudyLink is a service of the Ministry of Social Development. They help students make informed choices about their student finance, how to apply for it and manage it online. StudyLink has a range of ways to help fund your study, including student allowances and student loans.

Student Loans

A student loan needs to be paid back and helps you to pay for:

- your tuition fees
- study materials (e.g. books, laptop, travel)
- living costs.

Student Allowances

A student allowance is a weekly payment to assist with your costs of living while you are studying. Student allowances do not have to be paid back.

As part of the student allowance, you may be able to get an accommodation benefit if you live away from your parental home while you study.

In addition, StudyLink may also be able to provide some additional assistance. This includes help with:

- study breaks if you can't find work (jobseeker support, student hardship)
- going from a student allowance to a benefit
- accommodation costs
- ongoing medical and disability costs
- work costs
- childcare costs
- emergencies.

To obtain a student loan or student allowance, you'll need to be either:

- a New Zealand citizen, or
- ordinarily a resident in New Zealand and either:
  - have been living in New Zealand for at least 3 years, and
  - have held a residence class visa for 3 years, or
  - be a refugee or protected person, or
  - be sponsored into New Zealand by someone in your family who, at the time you were sponsored, was a refugee or protected person.

Check out the StudyLink website for more information. **https://www.studylink.govt.nz**

Work and Income

Work and Income may be able to help you with study costs if you receive a benefit, and you may be eligible for Working for Families Tax Credits from Inland Revenue.

Call Work and Income to discuss your situation, or visit their website for more information **www.workandincome.govt.nz**

Banks

New Zealand banks offer tertiary accounts which have many benefits for students including interest-free overdrafts, zero transaction or account management fees, access to loans in case of an emergency, and affordable insurance.

We encourage you to reach out to your bank to see what options they may have to support you.

Scholarships

Scholarships (also called grants or awards) are there to benefit students by providing financial assistance. Check with your school, iwi, employer or cultural support groups to see if there are any scholarships that you can apply for.

Creating IT professionals through excellence in education

Techtorium New Zealand Institute of Technology
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techtorium®