



# New Zealand Tech

Key Metrics

2023





THE UNITED VOICE FOR TECHNOLOGY  
IN AOTEAROA NEW ZEALAND,  
ENABLING TECH FOR GOOD

## The New Zealand Technology Ecosystem

NZTech is a not-for-profit collective impact association with a mission to support a values-led, nationally and internationally connected tech community that is collectively lifting safety, equity, sustainability and prosperity for all in Aotearoa, by creating jobs, export growth and impact through tech for good.

We support fact based decision making and every year we aggregate data from across the broader tech ecosystem. In 2016, for reporting consistency, we collaborated with the New Zealand Government on an agreed definition for the tech sector (see appendix).

This document provides a summary of updated key metrics for the New Zealand technology sector and the broader tech ecosystem for 2023. Where possible, we have included historical data to illustrate trends.

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# New Zealand's tech sector is growing, creating jobs and valuable exports.



New Zealand's  
Tech Sector has

**24,306**  
firms in 2023



Statistic NZ, 2024

New Zealand's tech  
sector contributed

**\$23b**  
to GDP in 2023



Statistic NZ, 2024

The number of digital tech firms  
in New Zealand grew

**5.3%**  
in 2023



Statistic NZ, 2024

New Zealand's tech sector exported

**\$10.7b**  
worth of goods and  
services in 2023



Statistic NZ, 2024

New Zealand had

**98,290**  
people working in  
ICT roles in 2023



Statistic NZ, 2024

New Zealand's tech  
sector employed

**121,630**  
people in 2023



Statistic NZ, 2024

Tech was New Zealand's

**3rd**  
largest export in 2023 after  
Dairy (\$19.8b) and Tourism (\$12.9b)



Statistic NZ, 2024

New Zealand's top 200  
tech exporters revenues grew

**13%**  
in 2023



TNI, 2023

New Zealand's  
tech sector created

**3,560**  
new jobs in 2023



Statistic NZ, 2024

In 2023, software exports  
have been growing

**20%**  
CAGR annually for over a decade.



Statistic NZ, 2023

 **SEE  
TOMORROW  
FIRST**

# Creating businesses

New Zealand's tech sector had



24,306

firms in 2023

Source: Statistics NZ 2024

The New Zealand tech sector was made up of 24,306 firms in 2023, an 3.7 percent increase year on year, creating 873 new tech firms. Note: some of these firms consist of single employee businesses, which probably includes some tech contractors.

The largest growth was in digital technology with 771 new firms in 2023, a 5.3 percent year on year growth rate.



873

new tech firms were created in NZ in 2023

Source: Statistics NZ 2024

The number of firms in the NZ digital tech sector grew



5.3%

in 2023

Source: Statistics NZ 2024

The number of firms in the NZ tech sector grew

3.7%

in 2023

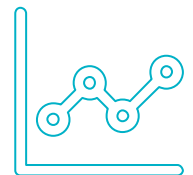


Source: Statistics NZ 2024

The number of firms in Christchurch's tech sector grew

4.1%

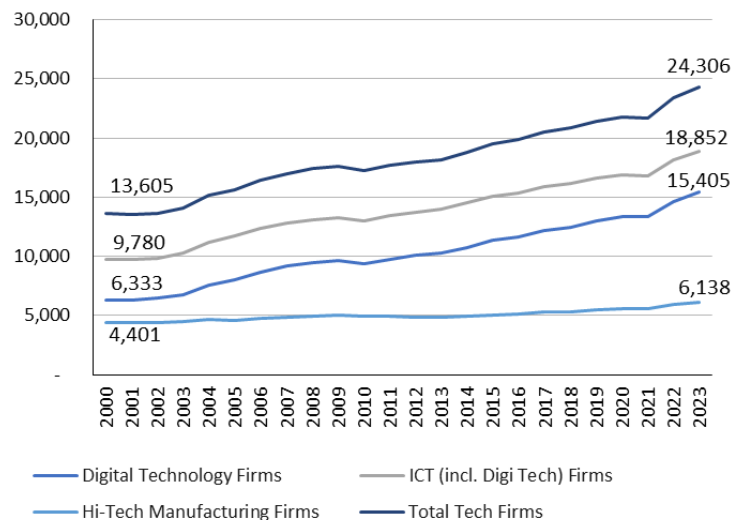
in 2023



Source: Statistics NZ 2024



## Tech Sector Firms, 2000-2023



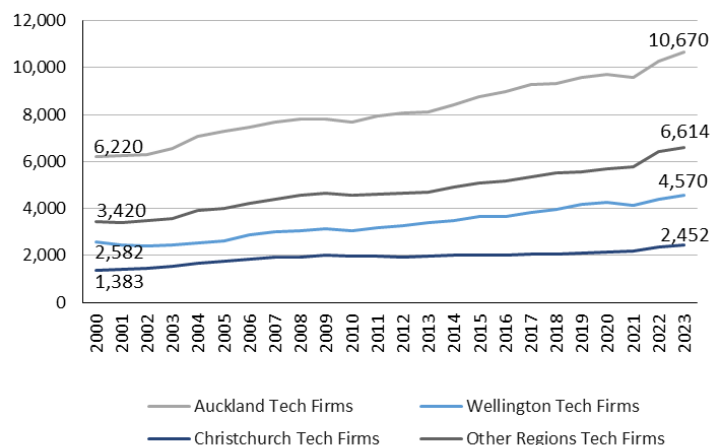
Source: Statistics NZ 2024

Since 2000, the number of tech firms in New Zealand has been increasing at a rate of about three percent a year. While the number of hi-tech manufacturing firms has only increased at a rate of one percent per annum, digital technology (the fast growing part of the ICT sector) has been increasing at a rate of four percent.

There were 15,405 digital technology firms in New Zealand in 2023, up 5.3 percent from 2022. While more complex and capital intensive than digital technology firms, there were still 186 new hi-tech manufacturing firms in 2023, up 3.1 percent from 2022.

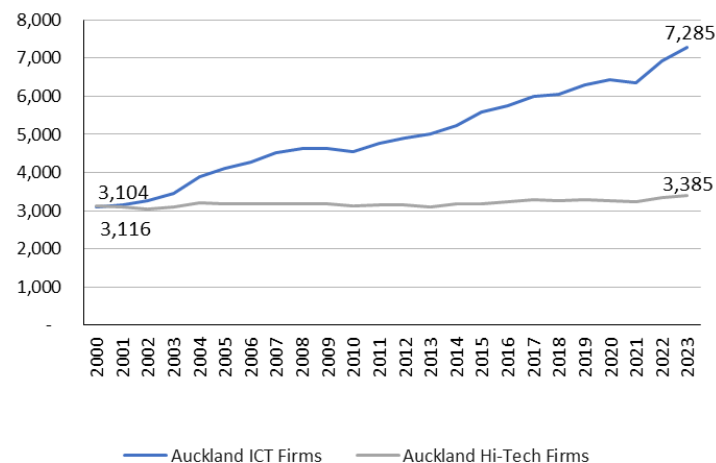
Auckland was home to 44 percent of tech firms, followed by Wellington (19 percent) and Christchurch (10 percent). The remaining 27 percent are spread through regional New Zealand.

## Tech Sector Firms - By Region, 2000-2023

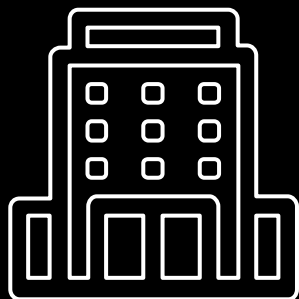


Source: Statistics NZ 2024

## Auckland Tech Firms, 2000-2023



Source: Statistics NZ 2024



# Tech Sector Firms by Region, 2023

	Hi-Tech Manuf.		ICT		Total	
Northland	311	3.5%	226	1.5%	537	2.2%
Auckland	3,385	38.1%	7,285	47.2%	10,670	43.9%
Waikato	896	10.1%	711	4.6%	1,607	6.6%
Bay of Plenty	605	6.8%	537	3.5%	1,142	4.7%
Gisborne	31	0.4%	37	0.2%	69	0.3%
Hawke's Bay	300	3.4%	234	1.5%	534	2.2%
Taranaki	260	2.9%	160	1.0%	420	1.7%
Manawatu-Wanganui	371	4.2%	234	1.5%	605	2.5%
Wellington	597	6.7%	3,973	25.8%	4,570	18.8%
Tasman	128	1.4%	86	0.6%	214	0.9%
Nelson	140	1.6%	128	0.8%	268	1.1%
Marlborough	120	1.3%	51	0.3%	171	0.7%
West Coast	51	0.6%	26	0.2%	77	0.3%
Canterbury	1,153	13.0%	1,299	8.4%	2,452	10.1%
Otago	354	4.0%	377	2.4%	731	3.0%
Southland	180	2.0%	60	0.4%	240	1.0%
	<b>8,883</b>		<b>15,423</b>		<b>24,306</b>	

# Creating jobs

**NZ's tech sector employed**



**121,630**

**people in 2023**

Source: Statistics NZ 2024

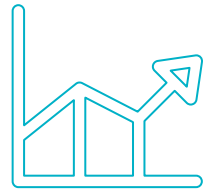
The companies in the New Zealand tech sector employed 121,630 people in 2023 across all roles.

Tech sector employment slowed through 2020 and 2021 due to COVID-19. Following the strong rebound in 2022 employment growth returned to normal in 2023, creating 3,560 new jobs, up three percent year on year.

The continuous growth of the New Zealand tech sector has created 46,937 new jobs for Kiwis between 2000 and 2023. The sector employed 4.9 percent of the New Zealand workforce in 2023, up from 3.9 percent in 2021.

The digital tech sector, a fast growing part of the tech sector, created 1,550 new jobs in New Zealand for Kiwis, a year on year growth of 3.5 percent.

**NZ's tech sector created**



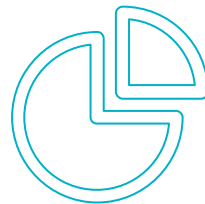
**3,560**

**new jobs in NZ in 2023**

Source: Statistics NZ 2024

**NZ's tech sector employed**

**4.9%**



**of the NZ workforce in 2023**

Source: Statistics NZ 2024

**NZ's digital tech sector created**



**1,550**

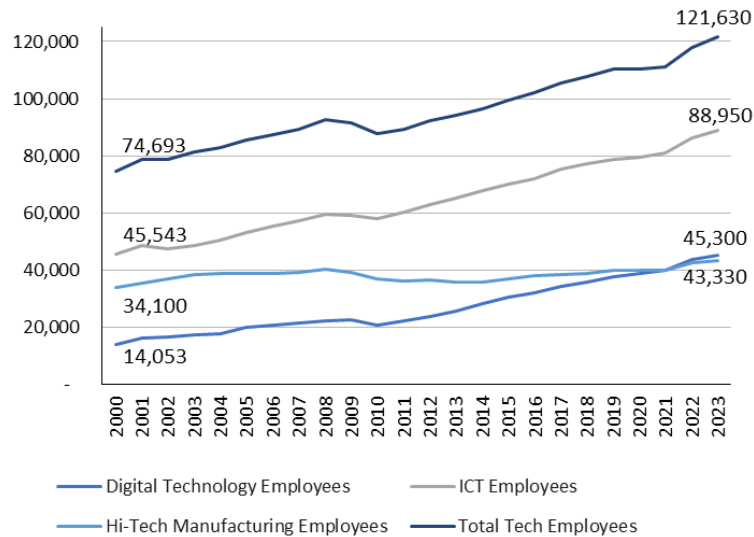
**new jobs in NZ in 2023**

Source: Statistics NZ 2024



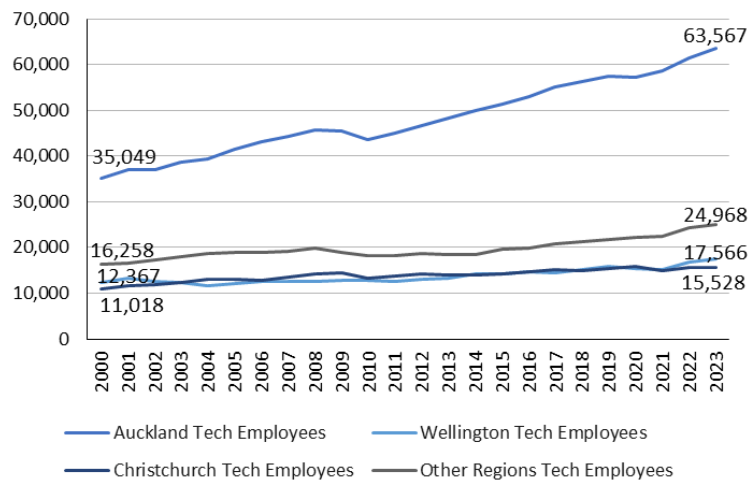


## Tech Sector Employees, 2000-2023



Source: Statistics NZ 2024

## Tech Sector Employees - By Region, 2000-2023



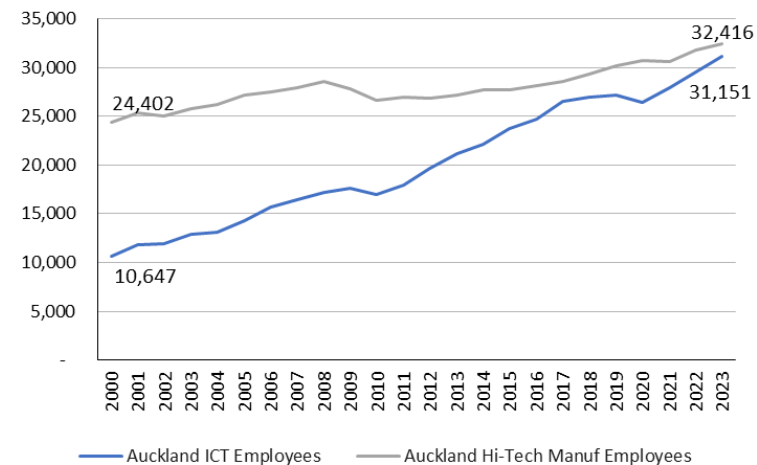
Source: Statistics NZ 2024

Tech sector job growth is driven by digital technology firms the fast growing part of the ICT sector, which is primarily made up of software-as-a-service (SaaS) firms. In 2023, the number of employees in the digital technology sector exceeded the number of employees in hi-tech manufacturing. Hi-tech manufacturing continued to grow creating almost 1,000 new jobs in New Zealand last year.

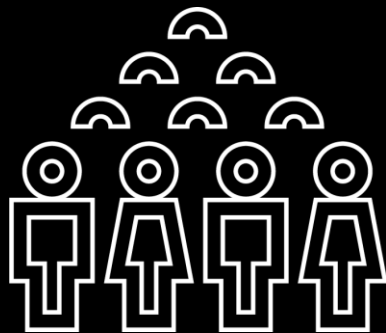
Auckland tech companies now employ 63,567 people, 52 percent of the tech sector workforce. Digital tech employment continues to grow rapidly in Auckland with 31,151 ICT workers, up 5.4 percent year on year.

More than 20 percent of the tech sector workforce continues to be based outside the main centres.

## Tech Sector Employees - Auckland, 2000-2023



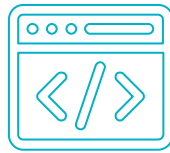
Source: Statistics NZ 2024



# Tech Sector Workforce by Region, 2023

	Hi-Tech Manuf.		ICT		Total	
Northland	913	1.4%	235	0.4%	1,148	0.9%
Auckland	32,416	50.6%	31,151	54.1%	63,567	52.3%
Waikato	4,364	6.8%	2,162	3.8%	6,526	5.4%
Bay of Plenty	3,325	5.2%	894	1.6%	4,219	3.5%
Gisborne	201	0.3%	63	0.1%	264	0.2%
Hawke's Bay	1,441	2.3%	607	1.1%	2,048	1.7%
Taranaki	1,467	2.3%	395	0.7%	1,861	1.5%
Manawatu-Wanganui	2,302	3.6%	496	0.9%	2,798	2.3%
Wellington	3,984	6.2%	13,582	23.6%	17,566	14.4%
Tasman	424	0.7%	68	0.1%	491	0.4%
Nelson	1,029	1.6%	288	0.5%	1,317	1.1%
Marlborough	388	0.6%	51	0.1%	438	0.4%
West Coast	189	0.3%	33	0.1%	222	0.2%
Canterbury	9,021	14.1%	6,507	11.3%	15,528	12.8%
Otago	1,766	2.8%	906	1.6%	2,672	2.2%
Southland	804	1.3%	158	0.3%	963	0.8%
	<b>64,034</b>		<b>57,596</b>		<b>121,630</b>	

Across all sectors there were



98,290

people in ICT jobs in New Zealand in 2023

Source: Ministry of Business, Innovation and Employment, 2024

The number of ICT workers in New Zealand increased

3.4%

in 2023



Source: Ministry of Business, Innovation and Employment, 2024

In New Zealand there were

33,250



software engineers and programmers in 2023

Source: Ministry of Business, Innovation and Employment, 2024

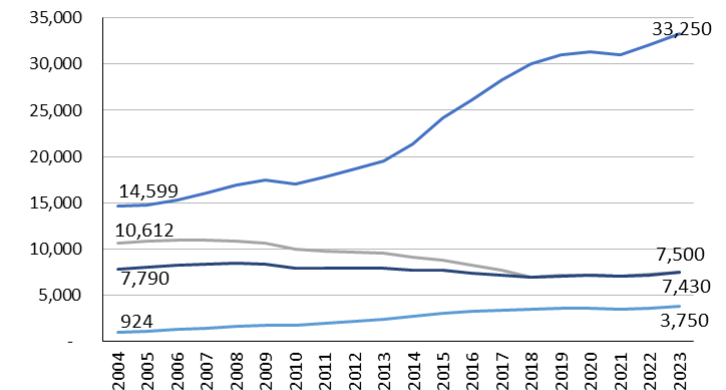
While the tech sector is growing and creating jobs, the rest of the economy is also undergoing digitalisation. This means ICT professionals are in demand across the economy.

There were 98,290 ICT professionals working across all sectors, including the tech sector. This was a 3.4 percent increase year on year, or 3,220 new ICT jobs. Most of these jobs are computer programmers or software engineers (33,250) followed by ICT managers - project and product managers (14,100).

The fastest growth is website design and developer jobs, up 3.8 percent year on year.

Note: in 2023, there was a minor change to the research methodology to improve accuracy. To allow comparisons the updated methodology was applied back to 2015.

### ICT Jobs, 2004-2023



— Software Engineer & Programmer Jobs — ICT & Customer Support Jobs  
 — Multimedia Specialist & Design Jobs — Network and Database Admin Jobs

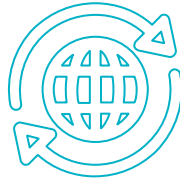
Source: Ministry of Business, Innovation and Employment, 2024

Note: Historical data 2015-2022 updated by MBIE to reflect methodology improvements.

# Creating export growth

New Zealand exported

\$10.7b



worth of tech goods  
and services in 2023

Source: Statistics NZ 2024

In 2023, New Zealand exported \$10.7 billion worth of technology goods and services, including \$1.9 billion worth of software that helped make up \$3.1 billion worth of ICT software and services exports.

Hi-Tech manufacturing exports were worth \$7.6 billion in 2023 and accounted for 71 percent of tech exports.

Hi-Tech manufacturing exports rebounded in 2023 growing 9.2 percent year on year.

Software exports have been growing at 20 percent CAGR for over a decade and now account for 17.4 percent of tech exports.

Other tech exports in 2023 included ICT consulting and development services (\$619 million), ICT support services (\$320 million) and Hosting and IT infrastructure services (\$307 million). While still a relatively small export market, the provision of hosting services from New Zealand grew 57 percent year on year to 2023.

Software exports have been growing



20%

CAGR annually  
for over a decade

Source: Statistics NZ 2024

New Zealand exported

\$3.1b

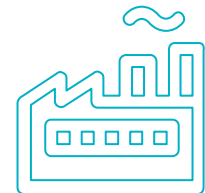


worth of ICT software  
and services in 2023

Source: Statistics NZ 2024

New Zealand exported

\$7.6b



worth of Hi-Tech  
manufacturing in 2023

Source: Statistics NZ 2024

### Tech made up



**of New Zealand's exports in 2023**

Source: Statistics NZ 2024

### Tech was New Zealand's

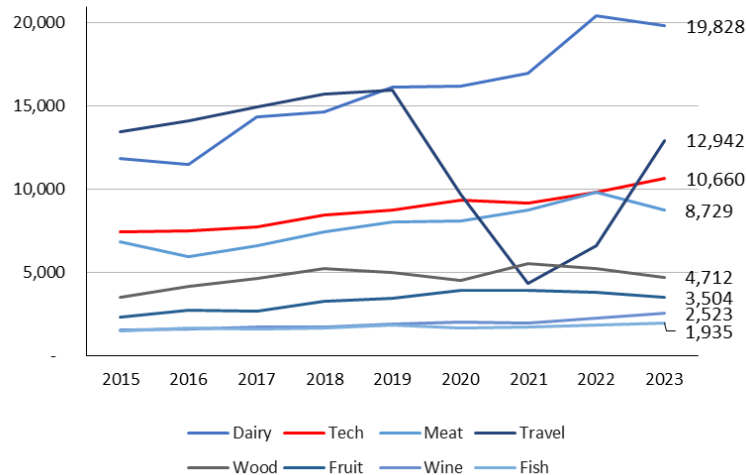
**3rd**



**largest export after Dairy and Tourism in 2023**

Source: Statistics NZ 2024

### New Zealand's Exports, 2015-2023



Source: Statistics NZ 2024

In 2023, tech exports accounted for 11 percent of all exports from New Zealand and are the third largest export category.

Dairy exports reduced by three percent year on year however they remain the largest export in value from New Zealand.

Tourism rebounded in 2023, growing 97 percent to return closer to pre-COVID levels.

Tech exports grew 8.7 percent year on year and continued to maintain a 5.8 percent growth rate across the past ten years.

New Zealand's largest 200 tech exporters contributed \$13 billion of offshore revenue, a 13.5 percent year on year increase.

### New Zealand's top 200 tech exporters had



Source: TIN Report 2023

### New Zealand's top 200 tech exporters had

**\$13b**



**in offshore revenues in 2023**

Source: TIN Report 2023

# A growing Māori tech sector

New Zealand had

85



significant Māori owned technology companies in 2023

Source: Toi Hangarau Report, Pāua Interface, 2024

In the second annual Toi Hangarau report into the emerging Māori technology ecosystem 85 significant Māori owned technology companies were identified. These companies employ over 1,300 people and the oldest company is 51 years old. Together, these 85 companies contain 909 years of business experience.

Among the enterprises, 55 operate primarily within the domestic market, 24 engage in international markets, and six are global companies with facilities or offices in other countries.

The twelve highest earning Māori tech businesses had a combined revenue of \$160.5 million in 2023, a 33 percent year on year increase.

This information is courtesy of Pāua Interface, authors of the annual Toi Hangarau research.

New Zealand's Māori owned technology companies employed

1,300 people in 2023



Source: Toi Hangarau Report, Pāua Interface, 2024

Of the top 12 earning Māori technology companies

83%

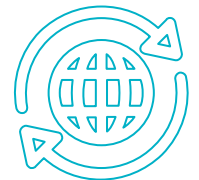


were medium or large businesses in 2023

Source: Toi Hangarau Report, Pāua Interface, 2024

Of the top 12 earning Māori technology companies

42%



are operating internationally

Source: Toi Hangarau Report, Pāua Interface, 2024

# Economic impact

**New Zealand's tech sector contributed**

**\$22.6b**

**to GDP in 2023**



Source: Statistics NZ 2024

In 2023, the New Zealand tech sector contributed \$22.6 billion to GDP, a 7.5 percent increase from 2022.

The tech sector continues to account for eight percent of New Zealand's GDP.

The ICT/Digital sector contributed \$15.2 billion to GDP, a growth of 11.6 percent year on year. High-tech manufacturing continued to contribute \$7.3 billion to GDP, which has been static for several years.

Research has found that for every four percent growth in the productivity of the New Zealand tech sector, it contributes an additional \$2.7 billion per year to GDP.

Additionally, for every new job created by the tech sector a further 4.8 jobs are created around that job in the local community.

**New Zealand's tech sector contributed**

**8%**

**of NZ's GDP in 2023**



Source: Statistics NZ 2024

**Each new tech sector job creates**

**4.8**

**other new jobs**



Source: Digital Nation Report, 2016

**Each 4% growth in tech sector productivity creates**

**\$2.7b**

**additional GDP**



Source: Digital Nation Report, 2016

# Attracting global talent

There were

2,205



visas approved for  
ICT roles in 2023

Source: Immigration New Zealand 2024

Digital Skills research continues to find that while many new tech jobs are created, almost all require advanced skills and experience. To keep pace with the growth of the tech sector, and demand for ICT professionals across other sectors, immigration provides access to a experienced professionals.

In 2023 there were 2,205 visa approvals for people coming to work in ICT roles, including 843 software engineers and programmers.

ICT visa approvals were



15%

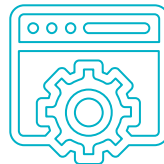
lower in 2023  
than 2022

Source: Immigration New Zealand 2024

Since the pandemic, digital technology employers have increased their focus on developing domestic talent and creating more entry level opportunities to reduce their reliance on immigration for talent. Consequently, visa approvals for ICT jobs were 15 percent lower in 2023 than 2022. Even in specialist high demand areas, for example cybersecurity, only 69 visas were issued as local training initiatives increased.

Software engineers and  
programmers had

843



visas approved in 2023

Source: Immigration New Zealand 2024



69

visas were approved for  
cybersecurity professionals  
in 2023

Source: Immigration New Zealand 2024



# Attracting investment

## Startups received

**\$163m**

**of investment in  
2023**



Source: Startup Investment Autumn 2024, PWC 2024

Investment was down in 2023. Total Early Stage\* investment in 2023 reached \$163 million, down from \$186 million in 2022. However the number of deals remained consistent at 144 deals completed in 2023 compared to 142 in 2022.

\*Early Stage refers to angels, incubators, university funds and early stage venture capital.

2023 saw only one major buy-out transaction (Push Pay) compared to six exits in 2022.

**The average  
amount raised by  
new startups in  
2023 was**

**\$1.6m**



Source: Startup Investment Autumn 2024, PWC 2024

**There was a**

**22%**

**decrease in the  
average amount  
raised by startups  
in 2023**



Source: Startup Investment Autumn 2024, PWC 2024

**In 2023**

**\$20.5m**



**of investment was raised  
by New Zealand fintech  
companies**

Source: NZ Fintech Report, TIN 2024

**There were**

**16**

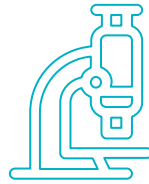
**capital raising deals  
by New Zealand  
fintech companies**



Source: NZ Fintech Report, TIN 2024

# Investing in R&D

Over **\$1b**  
was invested by ICT  
companies in R&D  
in New Zealand in 2023



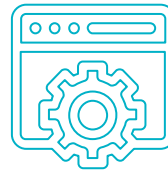
Source: Statistics NZ 2024

ICT companies invested 29 percent of all R&D spend, or \$1,067 billion, in 2023. This investment came from 399 ICT companies, 17 percent of the businesses that invested in R&D.

In comparison, the primary sector invested \$139 million and the food sector only \$89 million.

Across all sectors, almost one-fifth of R&D was for information and communication purposes.

Investment in R&D  
by ICT companies  
accounted for



**29%**  
of business  
R&D in 2023

Source: Statistics NZ 2024

Almost one-fifth of R&D  
investment across all sectors,



**18%**  
was invested in  
ICT in 2023

Source: Statistics NZ 2024

**399**  
ICT companies invested  
in R&D in 2023



Source: Statistics NZ 2024

R&D investment by ICT  
companies grew

**1%**

in 2023

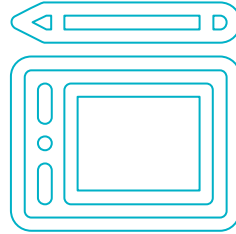


Source: Statistics NZ 2024

# Tech education

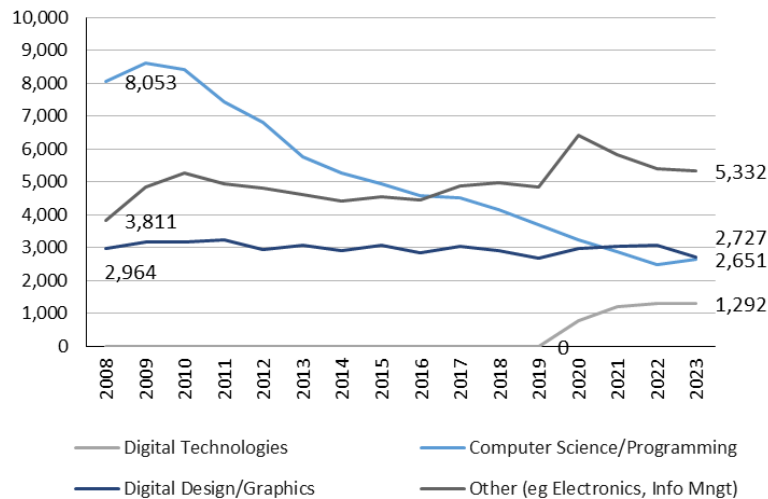
## 12,002

**of Year 13 students enrolled in NCEA technology courses in 2023**



Source: Ministry of Education, Education Counts 2024

### Secondary School Enrolments Year 13 Students, 2008-2023



Source: Ministry of Education, Education Counts 2024

In 2023, there were 12,002 year 13 ākonga taking NCEA technology subjects including computer science, programming, digital design, graphics, electronics, information management and materials. This data excludes food technology and textiles technology subjects.

There was a two percent year on year decline in participation of NCEA technology subjects by year 13 ākonga in 2023, including an 11 percent decline in participation in digital design subjects.

However, following a 13 percent decline in 2022, the number of students taking computer programming increased by six percent in 2023 to 2,651.

No data was available in 2023 for gender or ethnicity. In 2022, 29 percent of year 13 students taking technology courses were female.

**The number of Year 13 students enrolled in NCEA technology courses declined year on year by**

**-2%**

**in 2023**

Source: Ministry of Education, Education Counts 2024

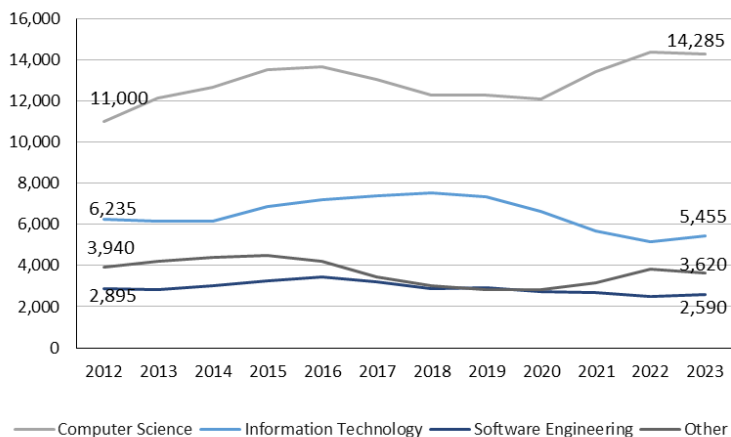


# 25,950

**students were enrolled in tertiary level IT qualifications in 2023**

Source: Ministry of Education, Education Counts 2024

### Enrolments Tertiary Level IT Courses 2012-2023



Source: Ministry of Education, Education Counts 2024

# 11,035

**domestic student were enrolled in IT degrees in 2023**



Source: Ministry of Education, Education Counts 2024

In 2023, from certificates to PhDs, there were 25,950 students taking tertiary information technology (IT) courses at any level. This was only a one percent growth from 2022, driven by an 8 percent decline in domestic students and a 32 percent increase in international students.

However the decrease in domestic enrolments was across lower valued certificate courses. Domestic enrolments in IT degree level courses increased by 22 percent in 2023 to 11,035. Domestic IT degree enrolment grew 12.4 percent in computer programming and 10.8 percent in multimedia computing, but declined 17 percent in cybersecurity.

**Domestic enrolments in IT degrees grew by**

# 21.6%

**between 2022 and 2023**

Source: Ministry of Education, Education Counts 2024

**Domestic enrolments in degree level multimedia computing courses grew**



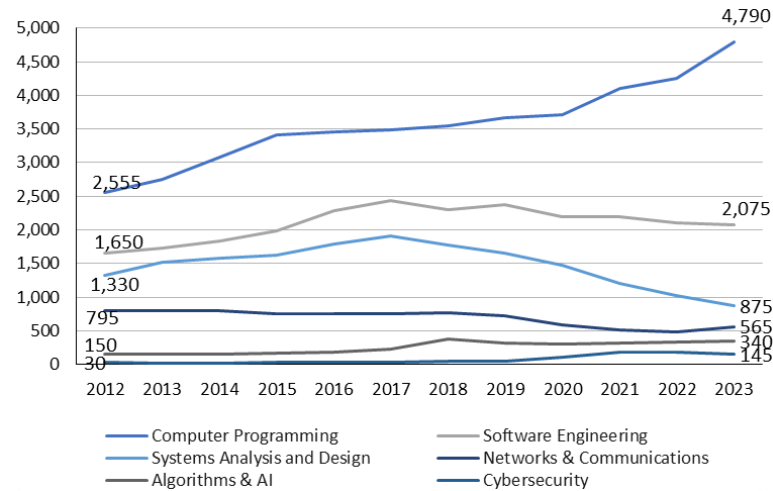
# 10.8%

**between 2022 and 2023**

Source: Ministry of Education, Education Counts 2024

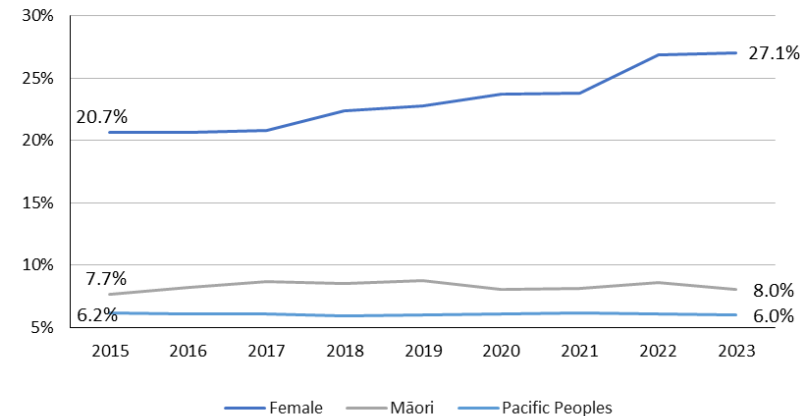


## Domestic IT Degree Enrolments by key subjects, 2012-2023



Source: Ministry of Education, Education Counts 2024

## Domestic IT Degree Enrolments Percent Female, Māori & Pacific 2015-2023



Source: Ministry of Education, Education Counts 2024

Of the 11,035 domestic students taking IT degree level courses, 4,790 were studying computer programming and 2,075 software engineering.

In 2023, there were 4,150 domestic students who transitioned from school to IT degrees, an increase of 73 percent from 2022 and the highest growth of new domestic IT degree enrolments recorded.

While enrolment in IT degree courses grew, it was driven by a 16 percent increase in Asian student, whereas Māori IT degree enrolments declined by one percent.

There continues to be proportionately low levels of enrolments by females (27%), Māori (8%) and Pacific Peoples (6%) in IT degree level courses.



# 4,150

**students moved from school to begin IT degrees in 2023**

Source: Ministry of Education, Education Counts 2024

# 27%

**of domestic students taking IT degrees in 2023 were female**



Source: Ministry of Education, Education Counts 2024

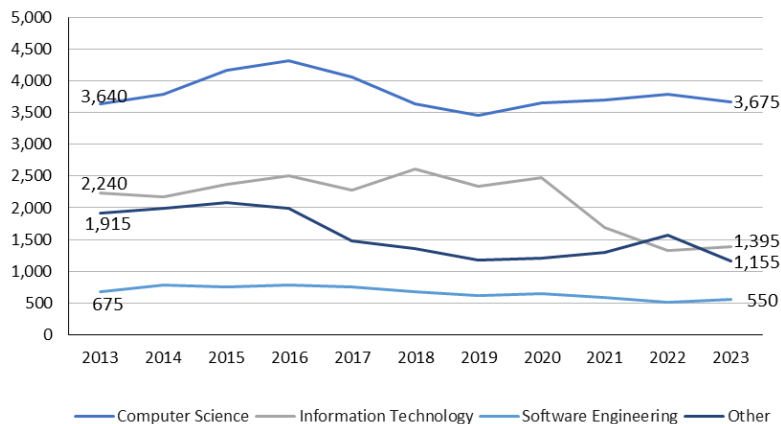
# 6,775

**students graduated from any tertiary level IT qualification in 2023**



Source: Ministry of Education, Education Counts 2024

## Graduates of Tertiary Level IT Courses 2013-2023



Source: Ministry of Education, Education Counts 2024

# 2,250

**domestic students graduated from IT degrees in 2023**



Source: Ministry of Education, Education Counts 2024

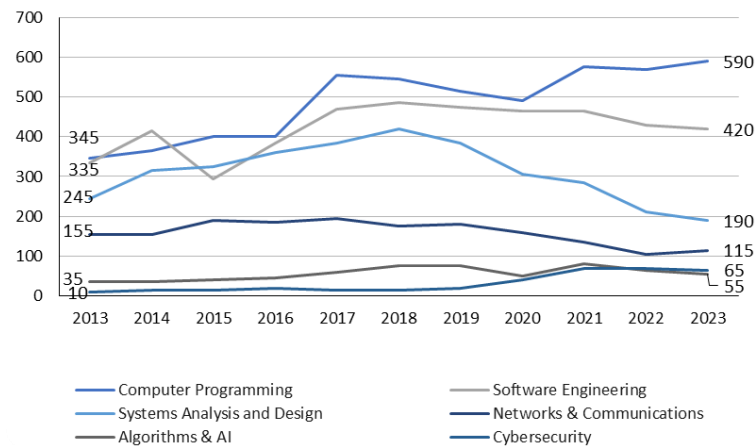
Students graduating with tertiary qualifications in IT declined by 5.6 percent in 2023 to 6,775 graduates. However there was a 5.7 percent increase in information technology and 7.8 percent increase in software engineering graduates, with the decrease in lower level certificates.

There were 2,250 domestic students graduating with IT degree level qualifications, a 2.7 percent year on year increase.

The high growth area was multimedia computing with 140 degree level graduates in 2023, up 47 percent. Only 65 students graduated with cybersecurity degree level qualifications, down 7 percent.

Diversity remains an issue with only 120 Māori IT degree graduates in 2023, 75 Pacific Peoples and 485 females.

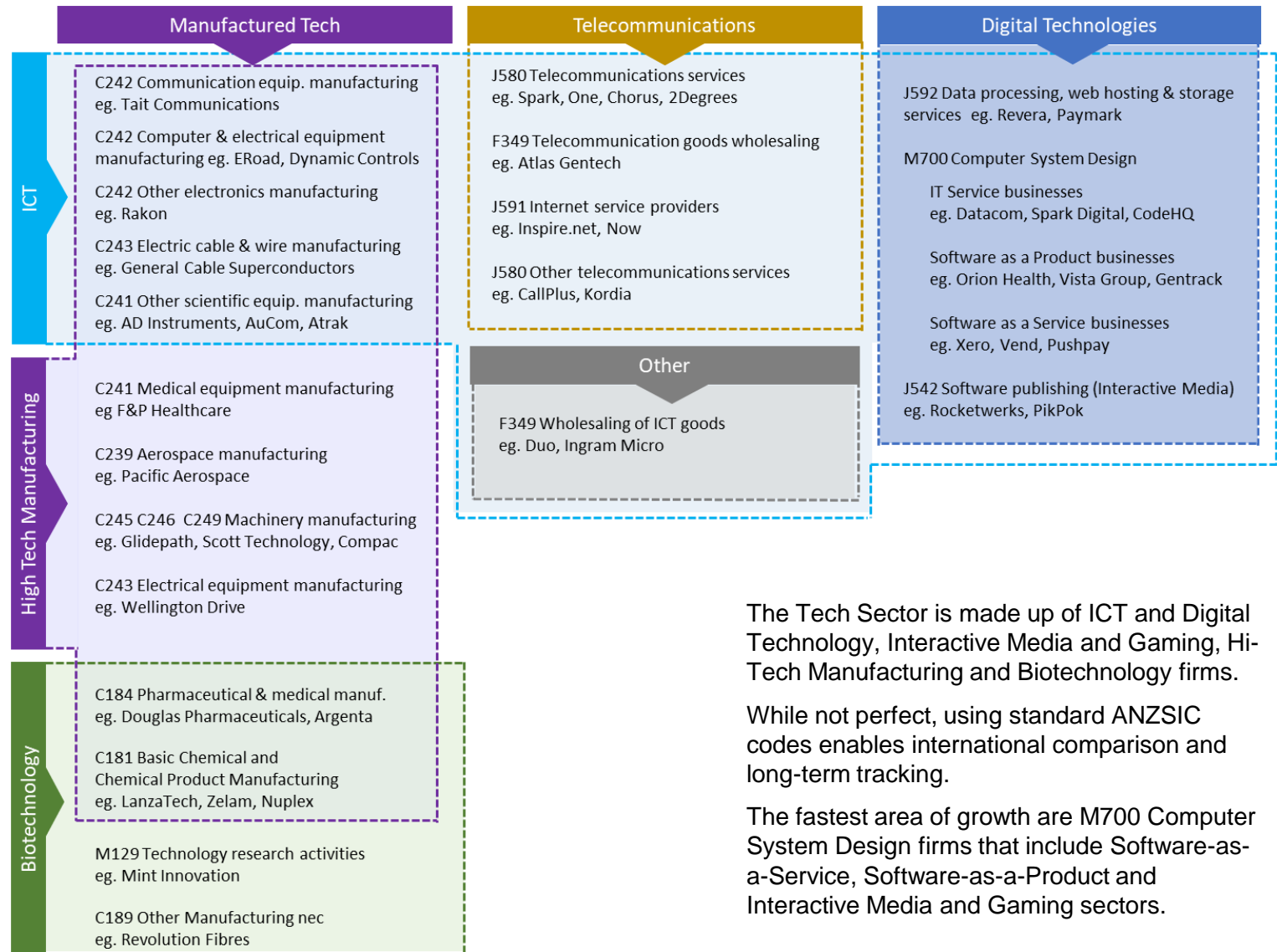
## Domestic IT Degree Graduates by key subjects, 2013-2023



Source: Ministry of Education, Education Counts 2024



# Tech Sector Definition



The Tech Sector is made up of ICT and Digital Technology, Interactive Media and Gaming, Hi-Tech Manufacturing and Biotechnology firms.

While not perfect, using standard ANZSIC codes enables international comparison and long-term tracking.

The fastest area of growth are M700 Computer System Design firms that include Software-as-a-Service, Software-as-a-Product and Interactive Media and Gaming sectors.



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