

Arts and Creative

in New Zealand



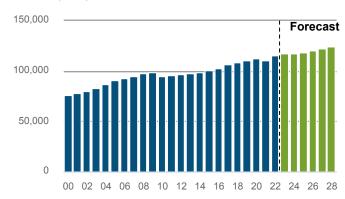
Arts and Creative

NEW ZEALAND

How many people worked in the sector in 2022?

115,114 filled jobs

4.3% of 2,693,301 in New Zealand



CHANGE P.A

Arts and Creative

Total New Zealand

2017-2022 2023-2028 1.5% 1.2% 2.1% 1.0%

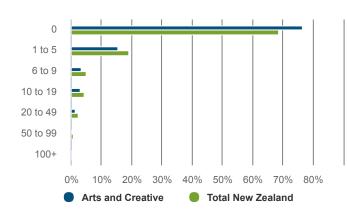
What regions do people work in?



How many businesses were in the sector in 2022?

35,955 business units

5.7% of 628,932 in New Zealand



What were the top 5 occupations in 2022?

31,384 jobs: top 5 occupations

27.3% of total Arts and Creative in New Zealand

OCCUPATION	LEVEL 2022		ANGE 23-28 (F)
Graphic Designer	8,078	1.4%	1.4%
Architect	7,379	4.4%	0.7%
Advertising and Public Relations Manager	6,075	3.0%	2.0%
Librarian	5,821	1.4%	0.9%
Music Teacher (Private Tuition)	4,030	2.7%	1.7%

How many people are likely to be in new roles in the sector between now and 2028?

37,006 Total job openings

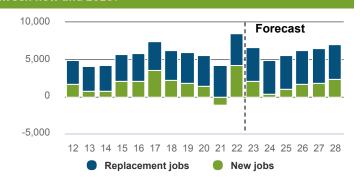
Total New Zealand: 898,134

Total job openings (2023-2028) consists of:

New jobs: 9,483

• Net Replacement job openings: 27,522

New job openings come from growth in total employment. Replacement job openings estimate individuals leaving an occupation (eg, retirement), net of individuals entering an occupation (eg, returning from parental leave).





Arts and Creative

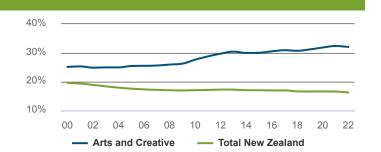
NEW ZEALAND

How many people were self-employed in 2022?

36,893 Self-employed

Workers in the Arts and Creative are more likely to be self-employed than workers in New Zealand as a whole.

32.0% self-employment rate Total New Zealand: 16.2%



How productive was the sector in 2022?

\$14,914m GDP

4.2% of New Zealand GDP

CHANGE P.A	2017-2022	2012-2022
Arts and Creative	4.4%	4.1%
Total New Zealand	2.9%	3.0%

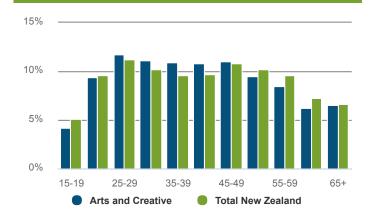
\$146,719 GDP/FTE

Total New Zealand: \$148,629

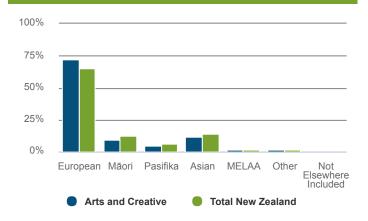
2.4% P.A. change from 2017-2022.

Total New Zealand: 0.4%.

What was the age profile of workers in 2018?



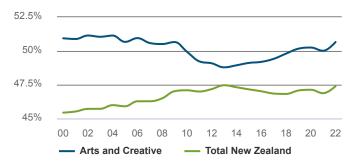
What was the ethnicity of workers in 2018?



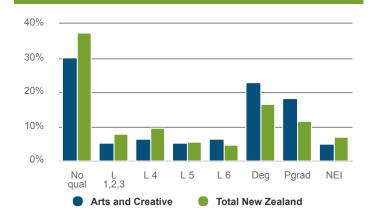
How many workers were female in 2022?

50.7% female

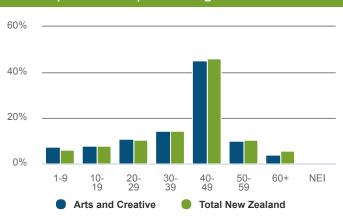
Total New Zealand: 47.4%



What were the workers highest (post school) quals in 2018?



How many hours were spent working in 2018?



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EMPLOYMENT AND ECONOMY

Growth in a sector is typically underpinned by expanding employment and growth in employment and gross domestic product (GDP). This section looks at current and historic trends in GDP in the Arts and Creative sector in New Zealand as well forecast growth in employment.

How many people work in the sector?

This section looks at the number of people employed in the Arts and Creative sector and how employment has changed over time. Employment is presented in terms of filled jobs as well as full-time equivalent employment. Forecast employment growth in filled jobs is also provided.

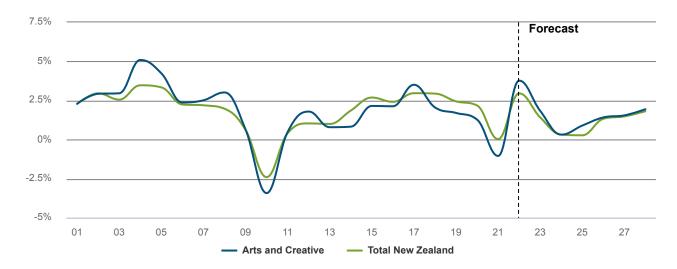
Employment growth

Employment growth in a sector is driven by a range of factors, including the level of confidence businesses have in their activity outlook. For example, positive employment growth shows that businesses in a sector are confident enough in their activity and outlook to expand their workforce.

The number of filled jobs in the Arts and Creative sector in New Zealand averaged 115,114 in the year to March 2022. The Arts and Creative sector accounts for 4.3% of overall filled jobs in New Zealand. In terms of historical and forecast trends for the Arts and Creative sector in New Zealand:

- Employment grew by 3.8% in 2022 compared with overall growth of 3.0% in New Zealand.
- Employment growth averaged 1.7%pa over the past 10 years compared with overall growth of 2.1%pa on New Zealand.
- Employment is forecast to grow by 1.3%pa between 2022 and 2028. Overall employment in New Zealand is forecast to grow by 1.1%pa over the period.

Figure 1: Employment growth in New Zealand



The following table shows filled job employment in the Arts and Creative in New Zealand for selected historic and forecast years. The Infometrics on-line Arts and Creative Sector Profile provides a complete time series of annual employment from 2000 onwards.

Table 1: Employment in the Arts and Creative sector in New Zealand

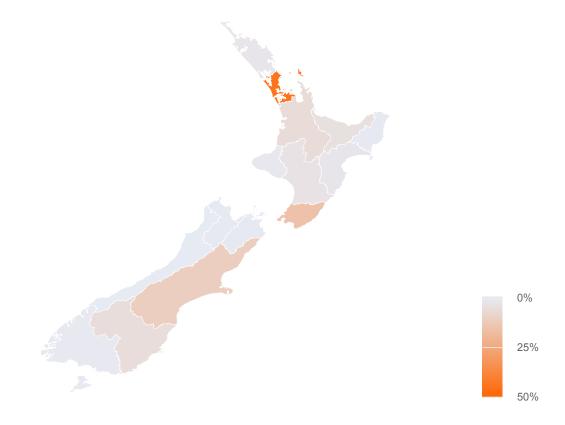
	Arts and Creative			Total New Ze	aland
	Employment	% of total	% change	Employment	% change
2002	80,096	4.3%	2.9%	1,870,235	3.0%
2007	94,827	4.4%	2.5%	2,143,285	2.2%
2012	97,141	4.5%	1.8%	2,177,782	1.0%
2017	106,621	4.4%	3.5%	2,426,508	3.0%
2018	108,820	4.4%	2.1%	2,497,954	2.9%
2019	110,679	4.3%	1.7%	2,559,165	2.5%
2020	112,097	4.3%	1.3%	2,615,079	2.2%
2021	110,928	4.2%	-1.0%	2,615,922	0%
2022	115,114	4.3%	3.8%	2,693,301	3.0%
2023 (f)	117,232	4.3%	1.8%	2,731,551	1.4%
2024 (f)	117,608	4.3%	0.3%	2,740,410	0.3%
2025 (f)	118,667	4.3%	0.9%	2,748,042	0.3%
2026 (f)	120,351	4.3%	1.4%	2,784,641	1.3%
2027 (f)	122,219	4.3%	1.6%	2,826,061	1.5%
2028 (f)	124,598	4.3%	1.9%	2,877,399	1.8%

Regional employment

Employment can vary across regions and is largely determined by economic conditions in the area, the makeup of the population and the types of resources available.

This section shows the regional distribution of employment in the Arts and Creative sector in 2022.

Figure 2: Regional employment in the Arts and Creative sector, 2022



The following table shows employment in the Arts and Creative sector by region in 2022.

Table 2: Employment by region in the Arts and Creative sector, 2022

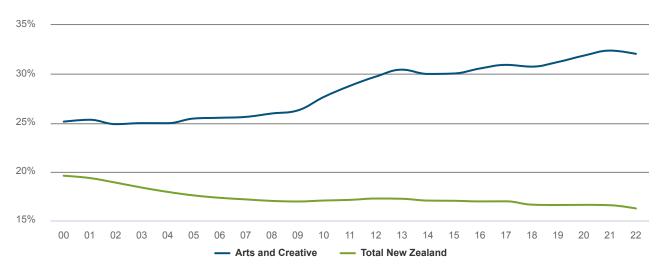
	Arts and Cre	ative	Total economy	
	Employment	% of NZ	Employment	% of NZ
Auckland	50,971	44.3%	949,891	35.3%
Wellington Region	17,651	15.3%	313,066	11.6%
Canterbury Region	12,429	10.8%	348,920	13.0%
Waikato Region	6,974	6.1%	239,066	8.9%
Otago Region	5,821	5.1%	132,014	4.9%
Bay of Plenty Region	5,251	4.6%	168,041	6.2%
Manawatu-Whanganui Region	3,682	3.2%	125,270	4.7%
Northland Region	2,695	2.3%	80,874	3.0%
Hawke's Bay Region	2,510	2.2%	89,232	3.3%
Taranaki Region	1,778	1.5%	62,533	2.3%
Southland Region	1,256	1.1%	55,624	2.1%
Nelson Region	1,222	1.1%	30,886	1.1%
Tasman Region	860	0.7%	27,732	1.0%
Marlborough Region	819	0.7%	28,856	1.1%
Gisborne Region	687	0.6%	24,650	0.9%
West Coast Region	511	0.4%	16,647	0.6%
New Zealand	115,114		2,693,301	

Self-employment

Approximately one in six people in employment in New Zealand is self-employed. The rate of self-employment varies by sector and is influenced by things such as the types of roles and functions performed by each sector.

In 2022 there were 36,893 people working in the Arts and Creative sector in New Zealand who were self-employed. This equates to 32.0% of the Arts and Creative sector workforce and is greater than the overall self-employment rate in New Zealand of 16.2%. The self-employment rate in the Arts and Creative sector in New Zealand has increased by 6.4 percentage points over the past 15 years compared to overall self-employment rate in New Zealand which has decreased by 0.9 percentage points.

Figure 3: Self-employment rate in New Zealand



The following table shows the level of self-employment in the Arts and Creative sector in New Zealand for selected years. The Infometrics online Arts and Creative Sector Profile provides a complete time series of self-employment from 2000 onwards.

Table 3: Self employment in the Arts and Creative sector in New Zealand

	Arts and Creative		Total New Zealand			
	Self-employed	% change	self-employment rate	Self-employed	% change	self-employment rate
2002	19,911	1.1%	24.9%	352,944	0.5%	18.9%
2007	24,276	2.9%	25.6%	367,754	1.2%	17.2%
2012	28,875	5.2%	29.7%	375,547	1.9%	17.2%
2017	32,972	4.8%	30.9%	411,557	3.0%	17.0%
2018	33,456	1.5%	30.7%	415,133	0.9%	16.6%
2019	34,552	3.3%	31.2%	424,339	2.2%	16.6%
2020	35,730	3.4%	31.9%	434,070	2.3%	16.6%
2021	35,924	0.5%	32.4%	433,221	-0.2%	16.6%
2022	36,893	2.7%	32.0%	437,093	0.9%	16.2%

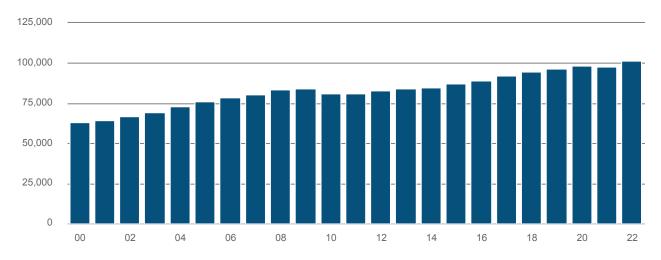
Full-time equivalent employment

Full-time equivalent (FTE) employment provides a way of looking at the number of filled jobs that takes into account the work-load of people into employment. FTE employment uses full and part-time employment to estimate the equivalent number of full-time employees. Two people who are employed part-time are measured as one FTE.

Using FTEs instead of employment to look at change over time can provide a more consistent comparison of labour resources used in employment over time.

In 2022 there were 101,653 FTEs in the Arts and Creative sector in New Zealand, up 1.6% pa from 15 years ago. Overall FTE employment in New Zealand grew by 1.7%pa over the same period.

Figure 4: FTE employment in the Arts and Creative sector in New Zealand



The following table shows FTE employment in the Arts and Creative sector in New Zealand for selected years. The Infometrics online Arts and Creative Sector Profile provides a complete time series of FTE employment from 2000 onwards.

Table 4: FTE employment in the Arts and Creative sector in New Zealand

	Arts and Creative			Total New Ze	aland
	FTEs	% of total	% change	FTEs	% change
2002	66,791	4.2%	3.4%	1,602,510	3.3%
2007	80,637	4.3%	3.0%	1,862,697	2.6%
2012	82,912	4.4%	2.0%	1,893,335	1.2%
2017	92,354	4.3%	3.4%	2,132,808	2.8%
2018	94,470	4.3%	2.3%	2,200,247	3.2%
2019	96,703	4.3%	2.4%	2,268,122	3.1%
2020	98,246	4.2%	1.6%	2,323,664	2.4%
2021	97,501	4.2%	-0.8%	2,327,823	0.2%
2022	101,653	4.2%	4.3%	2,406,727	3.4%

How many job openings are forecast in the sector?

Job openings typically arise for two key reasons - business expansion or contraction and people leaving their job. This section draws on Infometrics forecasts (revised in April 2020) to look at job openings arising from new job openings and replacement job openings. Both concepts, along with total job openings are discussed below.

New job openings are created when businesses are expanding and are positive about their economic outlook. Conversely job destruction occurs when businesses contract and have a negative perspective of their economic outlook.

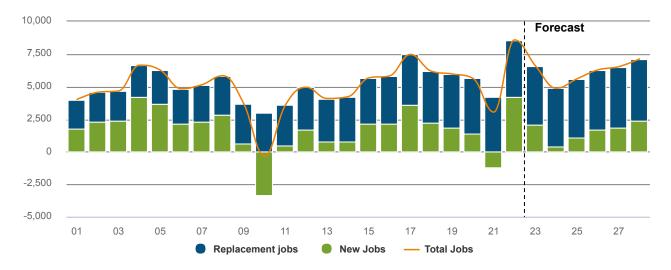
Replacement job openings provide an estimate of the net number of job openings in the sector that arise from individuals leaving an occupation (eg, retirement, or migration), net of jobs taken by individuals entering an occupation (eg, returning to the workforce from parental leave).

Total job openings estimate overall workers required in a sector as a result of job creation and replacement demand. They are the sum of new job openings and replacement job openings in a given year.

Total job openings

Infometrics forecasts show 37,006 total job openings in the Arts and Creative sector in New Zealand between 2023 and 2028. Of the forecast 37,006 total job openings, 9,483 are forecast to be new job openings while 27,522 are expected to be due to net replacement job openings.

Figure 5: Job openings in the Arts and Creative sector in New Zealand



The following table shows total job openings in the Arts and Creative sector in New Zealand for selected years. The Infometrics online Arts and Creative Sector Profile provides a complete time series of total job openings from 2001 onwards.

Table 5: Job openings in the Arts and Creative in New Zealand

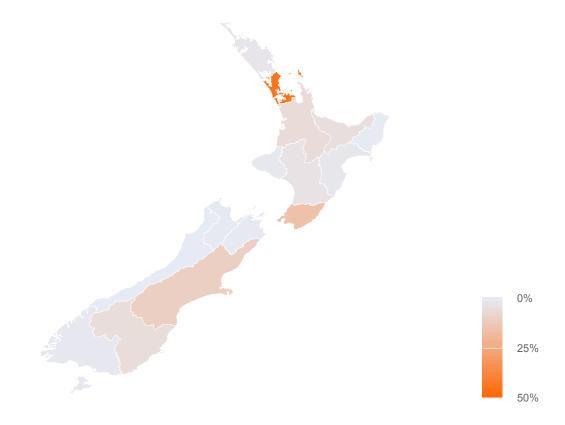
		Arts and (Total New Zeala	and		
	New jobs	Replacement jobs	TotalJobOpenings	% change	TotalJobOpenings	% change
2002	2,282	2,283	4,565	13.7%	111,026	14.5%
2007	2,329	2,821	5,149	6.4%	114,234	2.3%
2012	1,714	3,235	4,949	38.5%	99,390	19.5%
2017	3,615	3,854	7,469	28.3%	166,131	13.0%
2018	2,199	3,991	6,190	-17.1%	172,328	3.7%
2019	1,859	4,110	5,969	-3.6%	166,462	-3.4%
2020	1,418	4,218	5,636	-5.6%	165,395	-0.6%
2021	-1,169	4,214	3,045	-46.0%	112,186	-32.2%
2022	4,186	4,397	8,583	182%	192,832	71.9%
2023 (f)	2,118	4,487	6,605	-23.0%	155,444	-19.4%
2024 (f)	376	4,498	4,874	-26.2%	126,334	-18.7%
2025 (f)	1,058	4,540	5,598	14.9%	125,271	-0.8%
2026 (f)	1,685	4,597	6,281	12.2%	155,547	24.2%
2027 (f)	1,868	4,659	6,527	3.9%	161,858	4.1%
2028 (f)	2,378	4,741	7,120	9.1%	173,680	7.3%

Job openings by region

Forecast total job opening growth is likely to be stronger in some regions than others. Factors contributing to the variation in job opening growth by region include different economic drivers, population growth and age structures as well as resources available.

Auckland is expected to account for 45% of all total job openings in the Arts and Creative sector between 2023 and 2028.

Figure 6: Regional forecast job openings in the Arts and Creative sector, 2023-2028



The following table shows shows forecast regional total job openings in the Arts and Creative sector between 2023 and 2028.

Table 6: Forecast job openings by region in the Arts and Creative sector, 2023-2028

	Arts and Creative		Total economy			
	New Jobs	Replacement Jobs	Total job openings	New Jobs	Replacement Jobs	Total job openings
Auckland	4,425	12,082	16,507	64,339	249,763	314,102
Wellington Region	1,390	4,258	5,649	22,910	80,768	103,678
Canterbury Region	901	2,947	3,849	27,440	93,296	120,736
Waikato Region	517	1,650	2,167	12,682	62,985	75,667
Otago Region	545	1,457	2,002	13,758	36,476	50,233
Bay of Plenty Region	553	1,263	1,815	14,749	45,616	60,365
Manawatu-Whanganui Region	353	909	1,262	7,037	33,589	40,627
Northland Region	223	645	868	4,371	21,348	25,719
Hawke's Bay Region	135	593	729	5,325	24,216	29,541
Taranaki Region	108	420	528	1,872	16,096	17,968
Southland Region	126	311	436	2,291	15,093	17,385
Nelson Region	44	290	334	1,821	8,190	10,011
Tasman Region	83	205	288	1,297	7,523	8,820
Marlborough Region	63	200	262	2,267	8,015	10,283
Gisborne Region	32	167	199	1,327	6,666	7,993
West Coast Region	-15	125	110	611	4,396	5,007
New Zealand	9,483	27,522	37,006	184,098	714,036	898,134

What is the contribution of the sector to GDP?

Gross Domestic Product (GDP) is a fundamental indicator of a country or sector's economic wellbeing. GDP measures the value added in an industry or sector from the production of goods and services. It essentially measures the value of the land, labour, and capital used in the production process.

Gross Domestic Product

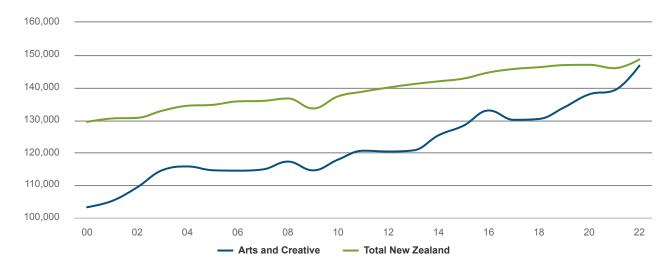
In 2022 the Arts and Creative sector contributed \$14,914m (in 2022 prices) to GDP in New Zealand. This equates to 4.2% of total New Zealand GDP. Key trends in the Arts and Creative sector in New Zealand include:

- GDP in 2022 was up 10.0% from a year earlier. Overall New Zealand GDP grew by 5.3% over the period.
- GDP grew by 4.1%pa over the last 10 years compared with overall New Zealand GDP growth of 3.0%pa.

We can express GDP as a proportion of FTE employment in the Arts and Creative sector to provide an estimate of labour productivity. Growth in labour productivity over time can imply an increase in efficiency and competitiveness.

In 2022 GDP per FTE in the Arts and Creative sector in New Zealand was \$146,719 compared to \$148,629 in the Total New Zealand. GDP per FTE growth in the Arts and Creative sector in the past 10 years has been stronger than overall GDP growth in New Zealand.

Figure 7: Productivity (GDP/FTE) in New Zealand



The following table shows GDP (in 2019 prices) and productivity (GDP/FTE) in the Arts and Creative sector in New Zealand for selected years. The Infometrics on-line Arts and Creative Sector Profile provides a complete time series of GDP from 2000 onwards.

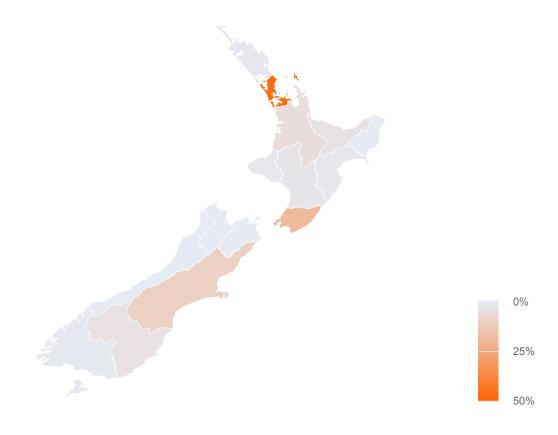
Table 7: GDP in the Arts and Creative sector in New Zealand

	Arts and Creative			Total	New Zealand	
	GDP (\$m)	% change	GDP/FTE	GDP (\$m)	% change	GDP/FTE
2002	\$7,306m	7.5%	\$109,381	\$209,421m	3.5%	\$130,683
2007	\$9,261m	3.3%	\$114,849	\$253,115m	2.7%	\$135,886
2012	\$9,979m	1.8%	\$120,358	\$265,038m	2.1%	\$139,985
2017	\$12,013m	1.2%	\$130,080	\$310,729m	3.6%	\$145,690
2018	\$12,314m	2.5%	\$130,349	\$321,755m	3.5%	\$146,236
2019	\$12,948m	5.1%	\$133,892	\$333,151m	3.5%	\$146,884
2020	\$13,548m	4.6%	\$137,901	\$341,493m	2.5%	\$146,963
2021	\$13,564m	0.1%	\$139,120	\$339,713m	-0.5%	\$145,936
2022	\$14,914m	10.0%	\$146,719	\$357,710m	5.3%	\$148,629

Regional GDP

GDP by varies by region due to a number of factors including the size of the workforce, resources available and technology used. In the Arts and Creative sector, Auckland accounted for 47.9% of overall GDP in 2022.

Figure 8: Regional share of GDP in the Arts and Creative sector, 2022



The following table shows regional distribution of GDP (in 2022 prices) in the Arts and Creative sector in 2022.

Table 8: GDP by region in the Arts and Creative sector, 2022

	Arts and Creative		Total economy	
	GDP	% of NZ	GDP	% of NZ
Auckland	\$7,139m	47.9%	\$133,749m	37.4%
Wellington Region	\$2,726m	18.3%	\$47,950m	13.4%
Canterbury Region	\$1,494m	10.0%	\$44,220m	12.4%
Waikato Region	\$780m	5.2%	\$31,004m	8.7%
Otago Region	\$613m	4.1%	\$15,901m	4.4%
Bay of Plenty Region	\$548m	3.7%	\$19,590m	5.5%
Manawatu-Whanganui Region	\$371m	2.5%	\$13,988m	3.9%
Northland Region	\$256m	1.7%	\$9,485m	2.7%
Hawke's Bay Region	\$253m	1.7%	\$9,819m	2.7%
Taranaki Region	\$205m	1.4%	\$9,984m	2.8%
Southland Region	\$140m	0.9%	\$7,319m	2.0%
Nelson Region	\$113m	0.8%	\$3,234m	0.9%
Tasman Region	\$80.6m	0.5%	\$2,925m	0.8%
Marlborough Region	\$78.6m	0.5%	\$3,708m	1.0%
Gisborne Region	\$64.2m	0.4%	\$2,461m	0.7%
West Coast Region	\$53.6m	0.4%	\$2,373m	0.7%
New Zealand	\$14,914m		\$357,710m	

How large are businesses in the sector?

The majority of businesses in New Zealand are small to medium enterprises (SMEs). The number and size of business units in a sector is largely influenced by both the sector's direct economic exposure as well as the typical size of business units within that sector. This section looks the number and size of businesses in the Arts and Creative sector in New Zealand.

Growth in the number of businesses is an indicator of entrepreneurial activity. It indicates an environment in which entrepreneurs are prepared to take risks to start new ventures. For example, positive growth in the number of businesses in a sector reflects increased entrepreneurial activity and economic activity as entrepreneurs are prepared to take risks and start new ventures. Conversely, a decline in the number of businesses indicates that firms have a pessimistic future outlook.

In 2022 there were 35,955 businesses in the Arts and Creative sector in New Zealand. Key trends include:

- The number of businesses in the sector grew by 8.0% in 2022 compared with a growth of 4.8% in the total economy.
- Average business growth in the sector over the past 10 years was 3.1%pa. Over the same period
 the overall number of businesses in New Zealand grew by 2.1%pa.

12.5% 10% 7.5% 5% 2.5% -2.5% 01 03 05 07 09 15 17 19 21 13

Figure 9: Business growth in New Zealand

The following table shows the number of businesses in the Arts and Creative sector in New Zealand for selected years. The Infometrics on-line Arts and Creative Sector Profile provides a complete time series of businesses from 2000 onwards.

Total New Zealand

- Arts and Creative

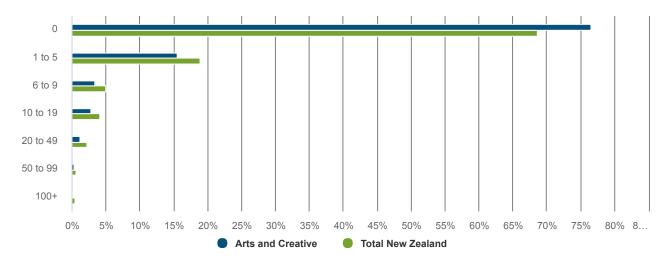
Table 9: Businesses in the Arts and Creative sector in New Zealand

	Arts and Creative		Total New Zealand		
	Business Units	% change	Business Units	% change	
2002	17,774	1.5%	407,742	1.1%	
2007	24,406	3.3%	504,372	2.2%	
2012	26,461	1.0%	510,243	-0.2%	
2017	30,296	3.6%	567,786	2.6%	
2018	30,701	1.3%	573,564	1.0%	
2019	31,577	2.9%	585,480	2.1%	
2020	32,833	4.0%	596,385	1.9%	
2021	33,297	1.4%	600,396	0.7%	
2022	35,955	8.0%	628,932	4.8%	

As well as being a contributor to the economic performance of a sector, the size of businesses is also considered to be an indicator of innovation with larger firms having the capacity and structures to better support innovation.

In 2022 SMEs accounted for 98.2% of all employment in the Arts and Creative sector in New Zealand.

Figure 10: Businesses by number of employees in New Zealand, 2022



Further detailed information about business size is available in the Infometrics online Arts and Creative Sector Profile.

OCCUPATIONS AND SKILLS

Occupations are a set of jobs whose main tasks are characterised by a high degree of similarity. Occupations provide the basis for understanding the broad skill level of the workforce. In this section we examine the current, historical and future occupation and skill makeup of workers in the Arts and Creative sector in New Zealand. To do this we draw on the Australian and New Zealand Standard Classification of Occupations (ANZSCO). An outline of ANZSCO is provided at the end of this report.

What is the broad occupational makeup of workers in the sector?

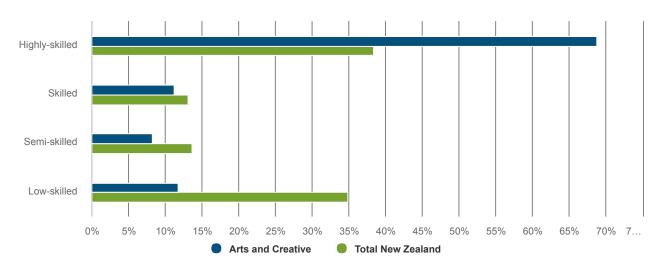
Within a sector, people can perform a diverse range of tasks as part of their job. Occupation categories group the main tasks associated with similar jobs to enable analysis, and can provide a good indication of the broad skill level required to perform these tasks.

Employment by skill level

Each occupation classification has an ideal skill level that industry have identified as desirable for people to competently carry out the tasks in their role. Grouping occupational classifications by desired skill level provides a high level overview of the the skills required across different sectors.

Approximately 68.8% of the Arts and Creative sector workforce in New Zealand were employed in Highly-skilled occupations in 2022. This is higher than for all occupations in New Zealand (38.4%).

Figure 11: Employment by skill level in New Zealand, 2022



The following table shows how Highly-skilled employment in the Arts and Creative sector in New Zealand has changed over time. The Infometrics online Arts and Creative Sector Profile provides a complete time series of employment by all broad skill levels from 2000 onwards.

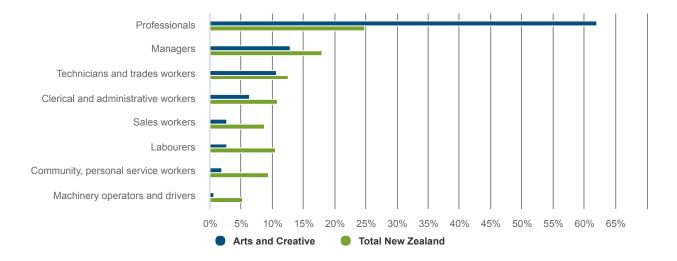
Table 10: Highly-skilled employment in the Arts and Creative sector in New Zealand

	Arts a	nd Creative		Total New Zealand				
	Employment	% change	% of total	Employment	% change	% of total		
2002	46,091	4.8%	57.5%	603,016	5.0%	32.2%		
2007	58,650	3.7%	61.9%	741,366	3.2%	34.6%		
2012	62,850	2.8%	64.7%	800,405	2.0%	36.8%		
2017	71,396	4.0%	67.0%	908,525	3.0%	37.4%		
2018	73,258	2.6%	67.3%	937,587	3.2%	37.5%		
2019	74,962	2.3%	67.7%	964,075	2.8%	37.7%		
2020	76,276	1.8%	68.0%	989,244	2.6%	37.8%		
2021	76,142	-0.2%	68.6%	997,763	0.9%	38.1%		
2022	79,182	4.0%	68.8%	1,033,711	3.6%	38.4%		

Employment by broad occupation

The ANZSCO classification of occupations is broken into five levels. The one-digit occupation classification groups employment into eight broad occupations. The largest broad (one-digit) occupation in the Arts and Creative sector in New Zealand in 2022 was Professionals, with 71,381 jobs (62.0% of all employment in the sector). In 2022 the Arts and Creative sector accounted for 24.8% of all Professionals employed in New Zealand.

Figure 12: Employment by broad occupation in New Zealand, 2022



There are 43 two-digit occupations in occupational classifications. The following table looks at employment in the key two-digit occupations in the Arts and Creative sector in 2022. Further details and timeseries data can be found in the Infometrics online Arts and Creative Sector Profile.

Table 11: Employment by 2-digit occupation in the Arts and Creative sector in New Zealand, 2022

	Arts and Creative		Total New Zealand	
	Employment	% of total	Employment	% of total
Design, Engineering, Science Professionals	26,388	22.9%	95,062	3.5%
Arts & Media Professionals	24,130	21.0%	24,594	0.9%
Business, HR & Marketing Professionals	10,888	9.5%	145,920	5.4%
Specialist Managers	10,675	9.3%	227,218	8.4%
Other Technicians & Trades Workers	7,658	6.7%	41,691	1.5%
All Others	35,376	30.7%	2,158,816	80.2%
Total	115,114	100%	2,693,301	100%

What are the top detailed occupations in the sector?

At the most detailed level there are around 1,000 occupational classifications. These classifications capture the specific roles undertaken in the economy. Understanding the detailed occupational makeup of a sector provides valuable insights into the key roles and activities performed.

The top five occupations in the Arts and Creative sector in New Zealand accounted for 27.3% of overall employment in the sector in 2022. Employment in all five of the top five occupations grew between 2017 and 2022.

The following table provides a breakdown of occupational employment in the Arts and Creative sector in New Zealand in 2022. The Infometrics online Arts and Creative Sector Profile provides a complete time series of employment by detailed occupation from 2000 onwards.

Table 12: Employment by 6-digit occupation in the Arts and Creative sector in New Zealand, 2022

	Arts and Cr	eative	Total New Zealand		
	Employment	% of total	Employment	% of total	
Graphic Designer	8,078	7.0%	8,078	0.3%	
Architect	7,379	6.4%	7,379	0.3%	
Advertising and Public Relations Manager	6,075	5.3%	6,075	0.2%	
Librarian	5,821	5.1%	5,821	0.2%	
Music Teacher (Private Tuition)	4,030	3.5%	4,030	0.1%	
All Others	83,730	72.7%	2,661,917	98.8%	
Total	115,114	100%	2,693,301	100%	

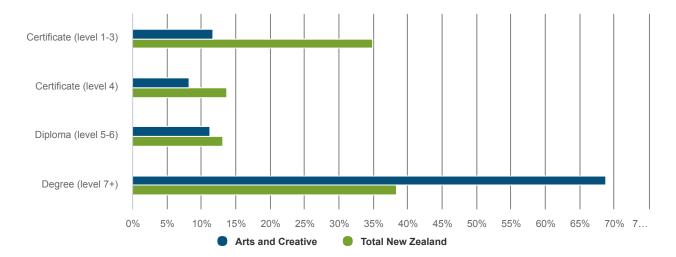
What qualifications do workers entering the sector need?

Gaining insights into the types of qualifications in demand in a sector and how they relate to skill levels can be useful in identifying and addressing skills gaps.

The Infometrics estimates of qualifications are derived from our occupational estimates by using information by industry (via occupational classifications) about the types of qualifications that are ideally required in each occupation. Our estimates therefore do not describe the educational profile of the sector's actual workforce and instead highlight the type of qualifications that are ideally required. For information about the qualification makeup of workers in the Arts and Creative sector refer to the Demographics section of this report.

Employers in the Arts and Creative in New Zealand ideally require people with a Degree (level 7+).

Figure 13: Qualifications of workers in New Zealand, 2022



The following table shows the ideal qualification level and field of study of workers in the Arts and Creative sector in New Zealand in 2022 is a Degree (level 7+) in Creative Arts. A full timeseries of the data in the table back to 2000 is available in the Infometrics online Arts and Creative Sector Profile.

Table 13: Employment by qualification required and field of study in the Arts and Creative sector in New Zealand, 2022

		Arts an	d Creativ	е			Total	New Zeal	and	
	Certificate (level 1-3)	Certificate (level 4)	Diploma (level 5- 6)	Degree (level 7+)	Total	Certificate (level 1-3)	Certificate (level 4)	Diploma (level 5- 6)	Degree (level 7+)	Total
Natural and Physical Sciences	130	72	172	3,687	4,061	16,971	2,238	9,922	80,535	109,666
Information Technology	841	47	225	2,317	3,431	43,019	2,461	10,388	39,745	95,614
Engineering and Related Technologies	1,353	2,816	1,727	4,100	9,996	152,935	138,717	42,928	105,554	440,133
Architecture and Building	472	2,122	3,406	8,981	14,981	51,440	77,798	18,345	27,543	175,127
Agriculture, Environmental and Related Studies	562	304	168	634	1,669	73,585	18,921	7,309	27,992	127,807
Health	1,020	181	717	1,694	3,612	65,489	12,200	36,471	145,663	259,823
Education	756	140	499	4,592	5,987	39,722	15,897	18,244	139,137	213,000
Management and Commerce	4,435	536	2,040	11,315	18,326	226,033	36,060	112,200	230,949	605,242
Society and Culture	1,605	246	662	15,552	18,065	108,251	15,319	39,947	174,697	338,215
Creative Arts	675	2,225	3,063	26,221	32,184	31,287	8,570	23,836	60,718	124,413
Food, Hospitality and Personal Services	1,625	813	276	88	2,802	130,125	39,900	33,060	1,177	204,262
Total	13,475	9,503	12,955	79,182	115,114	938,857	368,081	352,652	1,033,711	2,693,301

What jobs are forecast in the sector between 2023 and 2028?

Job openings typically arise for two key reasons - business expansion or contraction and people leaving their job. This section draws on Infometrics forecasts (revised in April 2020) to look at job openings arising from new job openings and replacement job openings. Both concepts, along with total job openings are discussed below.

New job openings are created when businesses are expanding and are positive about their economic outlook. Conversely job destruction occurs when businesses contract and have a negative perspective of their economic outlook.

Replacement job openings provide an estimate of the net number of job openings in the sector that arise from individuals leaving an occupation (eg, retirement, or migration), net of jobs taken by individuals entering an occupation (eg, returning to the workforce from parental leave).

Total job openings estimate overall workers required in a sector as a result of job creation and replacement demand. They are the sum of new job openings and replacement job openings in a given year.

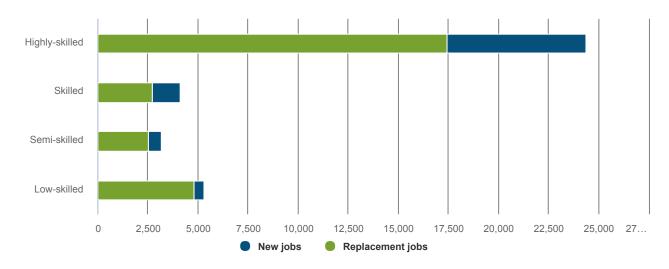
Infometrics estimates there will be 37,006 total job openings in the Arts and Creative sector between 2023 and 2028. Of these job openings:

- 25.6% are likely to be due to new job growth
- 74.4% are likely to be due to net replace demand.

Forecast job openings

Of the estimated 37,006 job openings between 2023 and 2028, Infometrics estimates that 65.9% are likely to be Highly-skilled jobs.

Figure 14: Forecast job openings by skill level in the Arts and Creative sector in New Zealand, 2023-2028

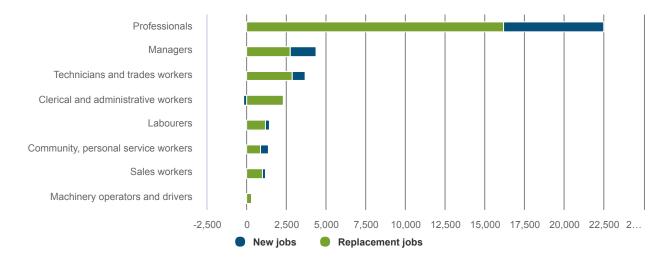


Job openings by broad occupation

The largest broad (level 1) occupation with job openings in the Arts and Creative sector between 2023 and 2028 is likely to be Professionals, accounting for 60.9% of job openings in the sector. The majority (71.9% of Professionals job openings are expected to be replacement job openings.

A detailed breakdown of annual forecast job openings by broad occupation in the Arts and Creative sector in New Zealand can be found in the Infometrics online Arts and Creative Sector Profile.

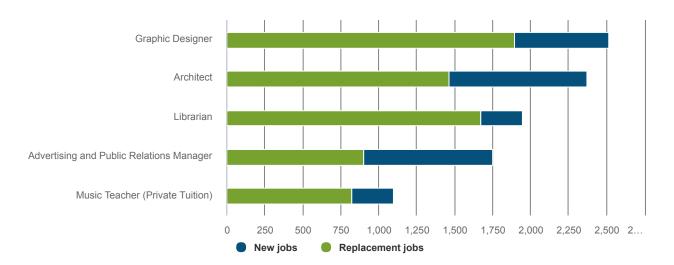
Figure 15: Forecast job openings by broad occupation in the Arts and Creative sector in New Zealand, 2023-2028



Forecast job openings by detailed occupation

The top five detailed occupations in the Arts and Creative sector in New Zealand are expected to account for 26.2% of all job openings between 2023 and 2028. Replacement job openings for these are expected to make up 18.3% of overall job openings in this sector.

Figure 16: Forecast job openings by detailed occupation in the Arts and Creative sector in New Zealand, 2023-2028



The following table shows forecast total job openings by detailed occupation in the Arts and Creative sector in New Zealand between 2023 and 2028. A detailed breakdown of annual forecast job openings by detailed occupation can be found in the Infometrics online Arts and Creative Sector Profile.

Table 14: Forecast employment and job openings in the Arts and Creative sector in New Zealand by detailed occupation, 2023-2028

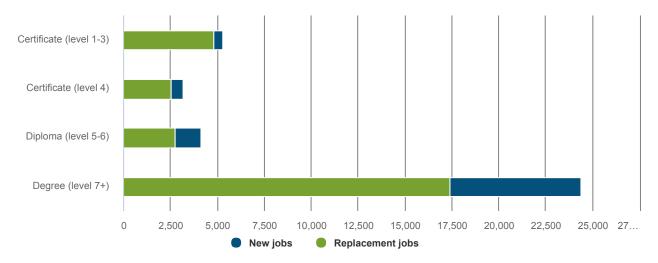
			Arts	Total New Zealand		
	Emplo 2022	yment 2028	New jobs	Replacement jobs	Total job openings	Total job openings
Graphic Designer	8,078	8,694	617	1,895	2,512	2,512
Architect	7,379	8,282	903	1,466	2,369	2,369
Advertising and Public Relations Manager	6,075	6,926	850	901	1,751	1,751
Librarian	5,821	6,098	277	1,672	1,948	1,948
Music Teacher (Private Tuition)	4,030	4,304	274	825	1,099	1,099
All others	83,730	90,293	6,563	20,764	27,327	799,550

What qualifications are workers in the sector likely to require in the future?

It is useful for learners, prospective employees and employers to know about the types of qualifications that are going to be in demand through job openings in their area of interest.

In the Arts and Creative sector in New Zealand there are likely to be 24,401 Degree (level 7+) between 2023 and 2028. Job openings at Degree (level 7+) account for 65.9% of all job openings in the sector over the period. Most of these job openings are expected to be replacement job openings (17,420 jobs).

Figure 17: Forecast job openings by qualification level in the Arts and Creative sector in New Zealand, 2023-2028



The following table shows the ideal qualifications and fields of study that employers are likely to require in the Arts and Creative sector in New Zealand between 2023 and 2028.

Table 15: Job openings by qualification required and field of study in the Arts and Creative sector in New Zealand, 2023-2028

		Arts and	d Creative				Total No	ew Zealan	ıd	
	Certificate (level 1-3)	Certificate (level 4)	Diploma (level 5- 6)	Degree (level 7+)	Total	Certificate (level 1-3)	Certificate (level 4)	Diploma (level 5- 6)	Degree (level 7+)	Total
Natural and Physical Sciences	3	5	9	361	378	922	137	763	7,651	9,472
Information Technology	18	6	12	253	290	1,942	114	833	4,997	7,885
Engineering and Related Technologies	15	189	131	425	759	7,176	6,595	4,188	10,426	28,385
Architecture and Building	33	156	337	955	1,481	2,087	-1,542	1,930	877	3,353
Agriculture, Environmental and Related Studies	17	24	17	70	127	3,157	881	730	899	5,666
Health	114	26	86	190	417	4,838	1,049	3,190	13,774	22,851
Education	16	32	38	395	482	2,106	1,836	1,563	9,831	15,336
Management and Commerce	30	66	241	1,024	1,361	8,357	3,100	9,182	16,332	36,971
Society and Culture	65	38	98	1,266	1,468	8,594	1,506	5,000	16,003	31,103
Creative Arts	23	25	361	2,035	2,444	1,483	263	2,355	4,603	8,703
Food, Hospitality and Personal Services	140	89	40	7	277	7,482	2,641	4,193	58	14,373
Total	474	656	1,373	6,981	9,483	48,144	16,579	33,926	85,449	184,098

DEMOGRAPHIC PROFILE OF WORKERS

A workforce that has a diverse makeup, experience, and opinions is likely to have the ability to make higher quality decisions. This section looks at diversity in the the Arts and Creative sector in New Zealand by examining the demographic makeup of the workforce in terms of age, ethnicity, gender, country of birth, hours worked and highest qualifications.

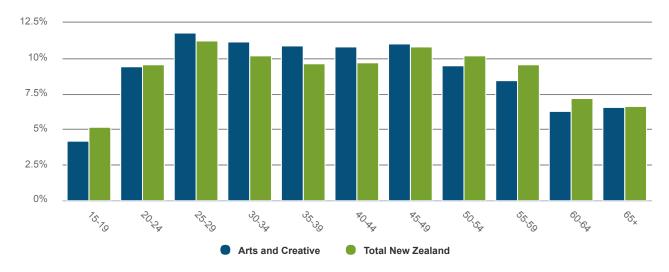
What is the age profile of workers in the sector?

The age profile of a sector can provide valuable insights into the current and future skill needs of a sector.

For example, a sector with an older age profile can indicate that the workforce is more likely to have fewer formal qualifications and more on-job experience than a sector with a more youthful age profile. An older age profile could also indicate a more immediate need to replace workers who may retire or are more likely to leave the workforce in the coming years.

Workers in the Arts and Creative sector in New Zealand have a slightly younger average age profile than all workers in New Zealand. In 2018 the average of Arts and Creative workers was 42.0 years, compared with 42.4 years for all workers in New Zealand.

Figure 18: Age of workers in New Zealand, 2018



The average age of workers in the Arts and Creative sector in New Zealand fell by 0.1 years between 2013 and 2018. Over the same period the overall average age of workers in New Zealand fell by 0.6 years.

The following table shows the age profile of workers in the Arts and Creative sector in New Zealand in 2013 and 2018.

Table 16: Employment by age in the Arts and Creative sector in New Zealand

		Arts and 0	reative		Total New	Zealand
	Em	ployment	Sha	are Of Total		Share Of Total
	2013	2018	2013	2018	2013	2018
15-19 Years	4,149	4,558	4.2%	4.2%	4.7%	5.1%
20-24 Years	8,949	10,223	9.1%	9.4%	9.0%	9.6%
25-29 Years	9,960	12,811	10.2%	11.8%	9.1%	11.2%
30-34 Years	10,579	12,142	10.8%	11.2%	9.2%	10.2%
35-39 Years	11,242	11,860	11.5%	10.9%	9.9%	9.6%
40-44 Years	12,102	11,769	12.4%	10.8%	11.8%	9.7%
45-49 Years	10,989	11,997	11.2%	11.0%	11.8%	10.8%
50-54 Years	9,991	10,335	10.2%	9.5%	11.7%	10.2%
55-59 Years	8,104	9,175	8.3%	8.4%	9.6%	9.6%
60-64 Years	6,321	6,816	6.5%	6.3%	7.4%	7.2%
65 years and over	5,530	7,133	5.6%	6.6%	5.8%	6.6%

What is the ethnic makeup of workers in the sector?

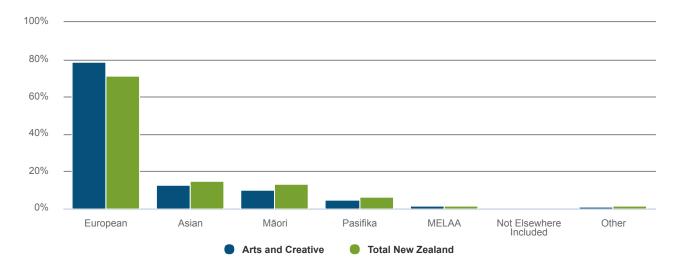
Understanding the ethnic composition of a workforce can be important in terms of improving innovation and productivity levels.

Different ethnic groups can bring diverse perspectives to employment, which when supported, can help support innovation. Similarly, workers from different ethnicities may require different types of in-work support to achieve their productive potential.

In 2018, workers in the Arts and Creative sector in New Zealand were:

- · less likely to be Maori than workers overall
- · less likely to be Pasifika than workers overall
- · less likely to be Asian than workers overall

Figure 19: Ethnicity of workers in New Zealand, 2018



The share of European ethnicity in the Arts and Creative sector in New Zealand grew from 83.0% in 2013 to 78.5% in 2018. The following table shows the broad ethnicity of workers in the Arts and Creative sector in New Zealand in 2013 and 2018.

Table 17: Employment by ethnicity in the Arts and Creative sector in New Zealand

		Arts and C	reative		Total New Zealand		
	Employment		Share	e Of Total	Sha	are Of Total	
	2013	2018	2013	2018	2013	2018	
European	81,222	85,453	83.0%	78.5%	77.2%	71.4%	
Asian	8,680	13,846	8.9%	12.7%	11.0%	15.1%	
Māori	8,701	11,278	8.9%	10.4%	11.1%	13.5%	
Pasifika	3,645	5,161	3.7%	4.7%	4.9%	6.5%	
MELAA	924	1,722	0.9%	1.6%	1.0%	1.4%	
Not Elsewhere Included	354	0	0.4%	0%	0.4%	0%	
Other	1,875	1,445	1.9%	1.3%	2.0%	1.4%	

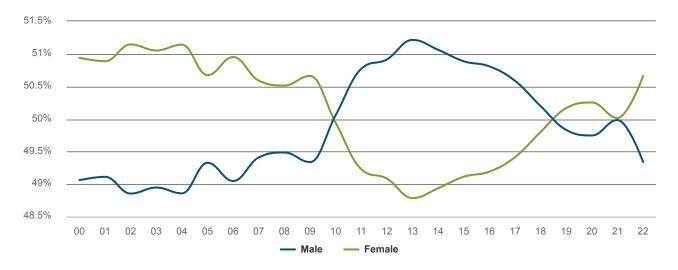
What is the gender balance of the sector?

Males and females can bring different approaches and insights to the workforce.

Share of employment by gender

This section looks at how the gender profile of the Arts and Creative sector in New Zealand has changed over time. The share of female employment in the Arts and Creative sector in New Zealand increased from 50.6% in 2007 to 50.7% in 2022.

Figure 20: Employment by gender in the Arts and Creative sector in New Zealand



The following table shows the gender makeup of workers in the Arts and Creative sector in New Zealand for selected years. A full timeseries of employment by gender in the Arts and Creative sector from 2000 is available in the Infometrics online Arts and Creative Sector Profile.

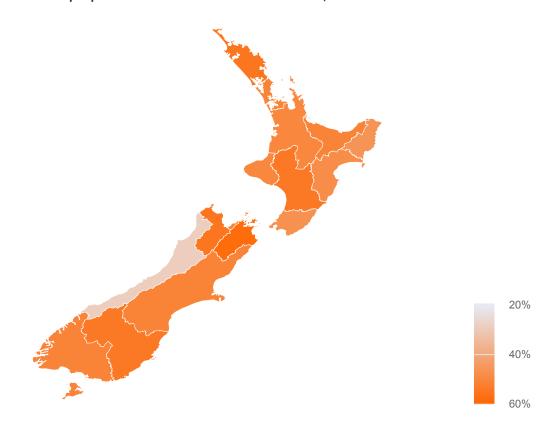
Table 18: Change in employment by gender in the Arts and Creative sector in New Zealand

		Arts and Cre		Total New Zealand		
	Employment			% share		% share
	Male	Female	Male	Female	Male	Female
2002	39,131	40,964	48.9%	51.1%	54.3%	45.7%
2007	46,855	47,972	49.4%	50.6%	53.7%	46.3%
2012	49,459	47,682	50.9%	49.1%	52.8%	47.2%
2017	53,935	52,686	50.6%	49.4%	53.2%	46.8%
2018	54,625	54,195	50.2%	49.8%	53.2%	46.8%
2019	55,154	55,525	49.8%	50.2%	52.9%	47.1%
2020	55,765	56,332	49.7%	50.3%	52.9%	47.1%
2021	55,446	55,482	50.0%	50.0%	53.1%	46.9%
2022	56,796	58,319	49.3%	50.7%	52.6%	47.4%

Regional employment by gender

Female employment in the Arts and Creative sector is highest in Auckland. The following map shows how the percentage of female workers in the Arts and Creative sector varies by region.

Figure 21: Female share of employment in the Arts and Creative sector, 2022



The following table provides supporting information on the gender balance of workers in the Arts and Creative sector in 2022. Data showing the regional gender makeup of workers in the Arts and Creative sector from 2000 is available in the Infometrics online Arts and Creative Sector Profile.

Table 19: Regional employment by gender in the Arts and Creative sector, 2022

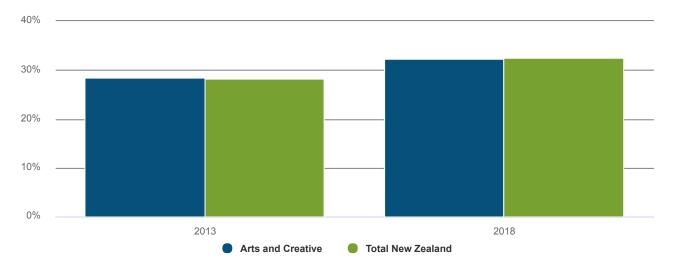
		Arts and Creative				Total economy		
	Em	ployment		% share		% share		
	Male	Female	Male	Female	Male	Female		
Auckland	24,999	25,972	49.0%	51.0%	53.0%	47.0%		
Bay of Plenty Region	2,581	2,670	49.0%	51.0%	52.0%	48.0%		
Canterbury Region	6,127	6,303	49.0%	51.0%	53.0%	47.0%		
Gisborne Region	369	317	54.0%	46.0%	54.0%	46.0%		
Hawke's Bay Region	1,295	1,215	52.0%	48.0%	52.0%	48.0%		
Manawatu-Whanganui Region	1,702	1,980	46.0%	54.0%	53.0%	47.0%		
Marlborough Region	340	479	42.0%	58.0%	54.0%	46.0%		
Nelson Region	601	620	49.0%	51.0%	51.0%	49.0%		
Northland Region	1,220	1,475	45.0%	55.0%	52.0%	48.0%		
Otago Region	2,701	3,120	46.0%	54.0%	52.0%	48.0%		
Southland Region	619	636	49.0%	51.0%	54.0%	46.0%		
Taranaki Region	881	897	50.0%	50.0%	54.0%	46.0%		
Tasman Region	388	472	45.0%	55.0%	54.0%	46.0%		
Waikato Region	3,458	3,516	50.0%	50.0%	54.0%	46.0%		
Wellington Region	9,298	8,353	53.0%	47.0%	51.0%	49.0%		
West Coast Region	363	149	71.0%	29.0%	57.0%	43.0%		

Where were workers in the sector born?

Migrant workers can bring valuable skills and experience to a sector. Additionally, migrant workers may also require additional levels of support in the workplace including literacy training and cultural integration. Improved support can help advance migrants' feelings of self-worth and belonging as well improve productivity. This can also have an impact on the likelihood of migrants remaining in the sector.

Census data shows that the migrant Arts and Creative sector workforce in New Zealand comprises 32.2% of workers. This compares to 32.5% of all workers in New Zealand. The share of Arts and Creative sector workers born overseas increased from 28.5% to 32.2% between 2013 and 2018. The share of all workers born overseas in New Zealand increased 4.2% over the period.

Figure 22: Share of workers in New Zealand born abroad



The most common origin for workers in the Arts and Creative sector outside New Zealand is Europe. The following table shows the country of birth of workers in the Arts and Creative sector in New Zealand from recent censuses.

Table 20: Employment by country of birth in the Arts and Creative sector in New Zealand

		Arts and Creative				Total New Zealand		
	Emp	Employment		Of Total	Sh	Share Of Total		
	2013	2018	2013	2018	2013	2018		
New Zealand	70,053	73,746	71.5%	67.8%	71.7%	67.5%		
Europe	11,609	12,373	11.9%	11.4%	9.5%	8.8%		
Asia	6,418	10,512	6.6%	9.7%	8.5%	12.0%		
Sub-Saharan Africa	2,420	2,900	2.5%	2.7%	2.4%	2.5%		
Rest of Oceania	2,181	2,612	2.2%	2.4%	3.8%	4.2%		
Australia	2,023	2,164	2.1%	2.0%	1.6%	1.6%		
Northern America	1,701	1,921	1.7%	1.8%	0.9%	1.0%		
Not Elsewhere Included	718	1,060	0.7%	1.0%	0.9%	1.2%		
North Africa and the Middle East	367	475	0.4%	0.4%	0.4%	0.4%		
Other	422	855	0.4%	0.8%	0.4%	0.7%		

How many hours do people work in the sector?

The number of hours worked in a sector can be an indicator of worker attachment to the sector. Hours worked in a sector can provide an indication of how much employers could meet growth by utilising their existing workforce without taking on additional labour, and can also highlight how likely people in employment are likely to undertake training.

People may have more than one job, though in New Zealand most people have only one. Here we look at people whose main job is in the Arts and Creative sector.

50%
40%
30%
20%
10%
0%
Arts and Creative Total New Zealand

Figure 23: Hours worked (main job) in New Zealand, 2018

The Infometrics online Arts and Creative Sector Profile provides more information on hours worked in the sector for both main jobs and all jobs.

How qualified are workers in the sector?

Higher educational attainment, in terms of recognised qualifications, is associated with a range of positive outcomes, including better income and workplace productivity.

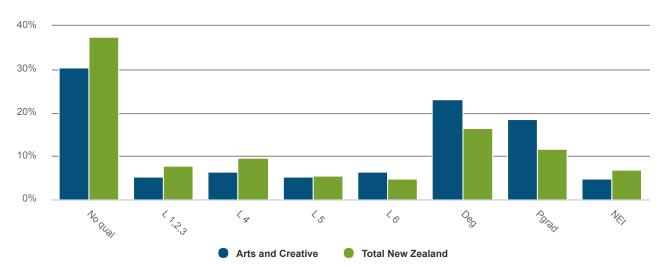


Figure 24: Highest qualification (post school) of workers in New Zealand, 2018

The Infometrics online Arts and Creative Sector Profile provides more information on school and postschool qualifications of workers in the sector.

DATA NOTES

Broad skill level

Highly-skilled occupations typically require a bachelor degree or higher qualification and include professionals such as accountants, teachers, and engineers, as well as most managers such as chief executives. This category is consistent with skill level one of the Australia New Zealand Standard Classification of Occupations (ANZSCO).

Skilled occupations typically require a level 5-6 Certificate or Diploma on the New Zealand Qualifications Framework (NZQF). The category includes some managers (such as retail managers) and technicians (such as architectural draftspersons, ICT support technicians and dental hygienists). This category is consistent with skill level two of the ANZSCO classification.

Semi-skilled occupations typically require an Level 4 qualification on the NZQF. The category includes tradespersons (such as motor mechanics), skilled service workers (such as firefighters), as well as skilled clerical and sales workers (such as legal secretaries and estate agents). This category is consistent with skill level three of the ANZSCO classification.

Low-skilled occupations typically require a Level 3 qualification or lower on the NZQF. The category includes a range of lower skilled occupations from general clerks, caregivers, and sales assistants, through to cleaners and labourers. This category is consistent with skill level three and four of the ANZSCO classification.

Businesses

Data on the number of businesses is sourced from the Business Demography statistics from Statistics New Zealand. Businesses are measured by geographic units, which represent a business location engaged in one, or predominantly one, kind of economic activity at a single physical site or base (eg. a factory, a farm, a shop, an office, etc). All non-trading or dormant enterprises, as well as enterprises outside of New Zealand, are excluded from business demography statistics.

A significant number of enterprises are recorded as having zero employment. Enterprises in the zero employee count size category may have:

- working owners who don't draw a wage from their business
- labour provided by other businesses or contractors
- business activity that requires no labour (eg. holding company).

Only businesses that are economically significant enterprises are included. To be regarded as economically significant they must meet at least one of the following criteria:

- annual expenses or sales subject to GST of more than \$30,000
- 12-month rolling mean employee count of greater than three
- part of a group of enterprises
- registered for GST and involved in agriculture or forestry
- over \$40,000 of income recorded in the IR10 annual tax return (this includes some units in residential property leasing and rental).

Demographic characteristics of people in employment

The demographic characteristics of workers in each sector are sourced from recent Stats NZ Population Censuses.

Employment in each sector is defined in terms of both industries and occupations using an industry-occupation employment matrix. After defining the sector on the matrix we sum employment across all occupations in each industry. We measure the demographic characteristics of employees in individual industries using data from recent Population Censuses and aggregate across industries to arrive at an estimate for the sector as a whole.

Employment

Industry employment numbers are from Infometrics' Regional Industry Occupation Employment Model (RIOEM). The model draws heavily on quarterly and annual Linked Employer Employee Data (LEED) published by Stats NZ. RIEM differs from Stats NZ's Business Demography data in that it is a quarterly series (BD is annual), and LEED includes both employees and the self-employed (BD only includes employees).

Employment is measured as an average of the four quarters making up each year. The unit of measurement is filled jobs.

Forecasts

The employment forecasts in this profile have been generated from the Infometrics Industry Model. This model produces forecasts of employment for 54 industries using a mix of principal component and regression techniques to link macroeconomic key indicators (eg inflation, interest rates, unemployment, the exchange rate, business profitability etc.) to prospects for each industry. A key aspect of this approach is that it produces an outlook for an industry that takes into account the recent performance of that industry, the impact of key influences on business performance in that industry, and is also constrained to ensure that the sum of production in all industries equals our forecasts of overall economic activity. That is, an industry can only grow faster than overall economic growth if past industrial performance and business conditions indicate that it will increase its share of national output.

Infometrics then decomposes these forecasts to a detailed industry level and uses industry-occupation employment matrices for New Zealand in order to measure total employment in a defined sector.

Full-time equivalent

Full-time equivalent (FTE) employment is a way of looking at employment that takes into account the work-load of people into employment. FTE employment is the sum of all full-time jobs plus half the number of part-time jobs. Two people who are employed part-time are measured as one FTE.

GDP

Gross domestic product (GDP) presented in this sector is estimated by Infometrics. GDP is measured in constant 2022 prices. GDP presented in constant prices is sometimes referred to as real GDP. By using constant prices we remove the distractionary effect of inflation, which enables us to meaningfully compare GDP from one year to the next.

GDP estimates are calculated by using earning and employment from Linked Employer Employee Data (LEED) to break down national production-based GDP published by Stats NZ.

A top down approach approach is used to break Statistics New Zealand National Production based GDP.

Job openings

New job openings are created when businesses are expanding and are positive about their economic outlook. Conversely job destruction occurs when businesses contract and have a negative perspective of their economic outlook.

Replacement job openings provides an estimate of the net number of job openings in the sector that arise from individuals leaving an occupation (eg, retirement, or migration), net of jobs taken by individuals entering an occupation (eg, returning to the workforce from parental leave).

Total job openings estimate overall workers required in a sector as a result of job creation and replacement demand. They are the sum of new job openings and replacement job openings in a given year.

Occupation definitions

Infometrics uses the Australian and New Zealand Standard Classification of Occupations (ANZSCO), which provides a basis for the standardised collection, analysis and dissemination of occupation data for Australia and New Zealand.

ANZSCO identifies a set of occupations covering all jobs in the labour market, defines these occupations according to their attributes and groups them based on their similarity into successively broader categories for statistical and other types of analysis. The individual objects classified in ANZSCO are jobs. In ANZSCO, occupations are organised into progressively larger groups based on their similarities in terms of both skill level and skill specialisation.

ANZSCO is structured into five hierarchical levels. These are around 1,000 occupations at "level 5" of the hierarchy, where occupations are defined in terms of sets of jobs which involve the performance of a common set of tasks. These occupations can be progressively grouped up through the classification hierarchy to come up with eight "level 1" occupations that are based on combinations of skill level and skill specialisation.

More information is available from ABS and Stats NZ: https://www.abs.govt.nz/ANZSCO.

Occupational employment

Occupation employment numbers are from Infometrics' Regional Industry Occupation Employment Model (RIOEM). Employment in each industry is converted to occupational employment using the relationship between industry and occupational employment observed in various Population Censuses. Population Censuses measure the occupational composition of employment in each industry and how this changes over time. Occupations conform to the categories used in the Australian New Zealand Standard Classification of Occupations (ANZSCO).

Self-employment

Self-employment rates are from Annual Linked Employer Employee Data (LEED).