



## Economic forecasts for Cairngorms National Park 2022

Data prepared by Oxford Economics 2023.

### Introduction

The data and forecasts presented in this report are estimated from various official data sources such as the Business Register & Employment Survey and Annual Population Survey.

The historical data are subject to revision and may be volatile, particularly at a sub-regional and sub-sectoral level. Therefore, forecasts at a higher, less disaggregated level are more robust than the detailed breakdowns.

It is recommended that users examine trends over time, rather than focusing on changes in individual years.

The forecasts were prepared in October 2022, Oxford Economics considered COVID-19 and Brexit related assumptions in the forecast model.

Forecast data provides an indication of the direction of travel and should not be presented as fact / certainty.

The data is provided rounded to the nearest 100.

Calculations of change are based on unrounded figures. Therefore, figures may not sum due to rounding.

Where data is shown as zero, this could mean that the figure is lower than 50 and therefore rounded down.

Please reference the data as follows: Oxford Economics, 2022.



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## Meta data

Table 1 Meta data

Variable	Units	Source	Definition
GVA	£ millions, 2019 prices	ONS Regional Accounts, Oxford Economics	The value of goods and services produced in an area.
Total employment (jobs)	Thousands	BRES, ONS workforce jobs, Oxford Economics	Workplace based Jobs; annual average. This includes anyone who is aged 16 and over who holds a job, whether as an employee, self-employed, Government Supported Trainee or within Her Majesty's Forces.
Male full- time employment (jobs)	Thousands	BRES, ONS workforce jobs, Oxford Economics	The number of full-time jobs (more than 30 hours per week), held by males.
Male part- time employment (jobs)	Thousands	BRES, ONS workforce jobs, Oxford Economics	The number of part-time jobs (30 hours or less per week), held by males.
Female full- time employment (jobs)	Thousands	BRES, ONS workforce jobs, Oxford Economics	The number of full-time jobs (more than 30 hours per week), held by females.
Female part- time employment (jobs)	Thousands	BRES, ONS workforce jobs, Oxford Economics	The number of part-time jobs (30 hours or less per week), held by females.
Self employment (jobs)	Thousands	2011 Census, ONS workforce jobs, Oxford Economics	The number of self-employed jobs.
Productivity	£ millions, 2019 prices	Oxford Economics	GVA per job; workplace based.



Variable	Units	Source	Definition
GVA by industry	£ millions, 2019 prices	ONS Regional Accounts, Oxford Economics	The value of goods and services produced by each SIC 2007 based sector.
Total employment by industry (jobs)	Thousands	BRES, ONS workforce jobs, Oxford Economics	Workplace based jobs within each SIC 2007 based sector; annual average.
Expansion demand by industry (jobs)	Thousands	Oxford Economics	The net change in industry employment over the forecast period and can therefore be a positive or negative figure.
Replacement demand by industry (jobs)	Thousands	Oxford Economics	The sum of leavers from employment plus net industry mobility and represents how many workers will be required at each level due to labour market churn.
Total requirement by industry (jobs)	Thousands	Oxford Economics	The sum of expansion demand and replacement demand.

## Economic forecasts

Table 2 Summary indicators.

Indicator	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Gross value added <sup>1</sup> (£, constant 2019 prices)	£435.94m	£410.65m	£439.39m	£430.95m	£412.58m	£358.87m	£388.65m	£409.22m	£406.34m	£413.34m	£426.14m	£434.95m	£441.61m	£447.05m	£452.20m	£457.22m	£462.38m	£467.40m
Total employment (people)	8,100	7,900	8,500	8,400	8,700	8,900	8,300	8,400	8,300	8,400	8,700	8,800	8,800	8,800	8,900	8,900	8,900	8,900
Male full-time employment (people)	2,500	2,600	3,000	3,100	2,900	2,800	2,700	2,700	2,700	2,700	2,700	2,700	2,800	2,800	2,800	2,800	2,800	2,800
Male part-time employment (people)	800	800	900	800	900	600	600	600	600	600	600	600	600	600	600	700	700	700
Female full-time employment (people)	2,200	2,000	2,200	2,100	2,100	2,300	2,300	2,300	2,300	2,400	2,400	2,500	2,500	2,500	2,500	2,400	2,400	2,400
Female part-time employment (people)	2,700	2,600	2,500	2,300	2,900	3,100	2,700	2,800	2,800	2,800	2,900	2,900	3,000	3,000	3,000	2,900	2,900	2,900
Productivity (constant 2019 prices)	£47,300	£43,300	£46,800	£46,600	£42,200	£38,100	£42,000	£43,400	£43,500	£43,700	£43,900	£44,300	£44,700	£45,200	£45,600	£46,200	£46,600	£47,100

Table 3 Summary indicators – change.

Indicator	Change 2020 - 2022	Absolute change	Change 2022 - 2027	Absolute change	Change 2027 - 2030	Absolute change	Change Mid Term (2022 - 2025)	Absolute change	Change Long Term (2025 - 2032)	Absolute change
Gross value added (£, constant 2019 prices)	14.0%	£50.35m	7.9%	£32.39m	3.5%	£15.61m	4.1%	£16.92m	9.7%	£41.25m
Total employment (people)	-5.5%	-500	5.4%	400	0.3%	0	3.4%	300	2.3%	200
Male full-time employment (people)	-3.5%	-100	1.6%	0	1.6%	0	-0.6%	0	4.8%	100
Male part-time employment (people)	-0.6%	0	3.9%	0	2.6%	0	0.3%	0	8.4%	100
Female full-time employment (people)	-1.7%	0	7.9%	200	-0.8%	0	7.1%	200	-1.0%	0
Female part-time employment (people)	-11.0%	-300	7.3%	200	-0.4%	0	5.1%	100	1.5%	0
Productivity (constant 2019 prices)	14.1%	£5,400	2.8%	£1,200	3.3%	£1,500	1.1%	£500	7.3%	£3,200

<sup>1</sup> Gross value added (GVA) is an economic productivity metric that measures the contribution of a corporate subsidiary, company, or municipality to an economy, producer, sector, or region.

Gross value added provides a pound sterling value for the amount of goods and services that have been produced in an area, minus the cost of all inputs and raw materials that are directly attributable to that production. Gross Value added thus adjusts gross domestic product (GDP) by the impact of subsidies and taxes or tariffs on products.

Table 4 Gross value added (GVA) by industry (£).

Industry	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Total	£435.94m	£410.65m	£439.39m	£430.95m	£412.58m	£358.87m	£388.65m	£409.22m	£406.34m	£413.34m	£426.14m	£434.95m	£441.61m	£447.05m	£452.20m	£457.22m	£462.38m	£467.40m
A : Agriculture, forestry and fishing	£10.82m	£11.63m	£10.57m	£9.30m	£12.00m	£11.19m	£12.02m	£12.57m	£12.53m	£12.58m	£12.77m	£12.91m	£12.97m	£13.01m	£13.06m	£13.10m	£13.11m	£13.11m
B : Mining and quarrying	£1.02m	£0.48m	£0.36m	£0.72m	£2.05m	£2.14m	£1.90m	£1.92m	£1.89m	£1.83m	£1.77m	£1.74m	£1.71m	£1.68m	£1.64m	£1.61m	£1.57m	£1.54m
C : Manufacturing	£47.95m	£34.04m	£27.62m	£39.77m	£31.43m	£29.91m	£31.00m	£31.66m	£31.59m	£32.05m	£32.73m	£33.24m	£33.70m	£34.10m	£34.48m	£34.86m	£35.21m	£35.56m
D : Electricity, gas, steam and air conditioning supply	£1.78m	£3.57m	£2.14m	£1.96m	£2.00m	£2.36m	£2.38m	£2.31m	£2.33m	£2.35m	£2.40m	£2.45m	£2.49m	£2.53m	£2.56m	£2.60m	£2.63m	£2.67m
E : Water supply; sewerage, waste management and remediation activities	£1.97m	£3.98m	£0.57m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m	£0.00m
F : Construction	£32.25m	£37.21m	£36.18m	£40.47m	£31.96m	£22.61m	£27.23m	£29.23m	£29.55m	£30.29m	£31.24m	£31.91m	£32.46m	£32.94m	£33.39m	£33.83m	£34.22m	£34.62m
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	£51.71m	£49.92m	£54.48m	£54.90m	£53.53m	£47.68m	£49.48m	£47.67m	£45.72m	£46.53m	£48.46m	£49.35m	£49.96m	£50.42m	£50.86m	£51.28m	£51.66m	£52.04m
H : Transportation and storage	£4.45m	£3.79m	£4.03m	£4.44m	£4.18m	£3.64m	£3.90m	£4.43m	£4.37m	£4.46m	£4.60m	£4.69m	£4.75m	£4.80m	£4.84m	£4.87m	£4.90m	£4.94m
I : Accommodation and food service activities	£47.85m	£57.58m	£56.40m	£51.22m	£59.63m	£35.09m	£46.06m	£60.21m	£58.89m	£60.43m	£63.24m	£65.25m	£66.56m	£67.39m	£68.17m	£68.92m	£69.87m	£70.74m
J : Information and communication	£2.84m	£4.20m	£3.98m	£4.58m	£6.88m	£4.45m	£4.86m	£5.31m	£5.30m	£5.45m	£5.71m	£5.90m	£6.06m	£6.21m	£6.36m	£6.51m	£6.66m	£6.82m
K : Financial and insurance activities	£3.30m	£3.76m	£5.59m	£5.15m	£2.73m	£5.73m	£5.43m	£5.16m	£5.16m	£5.22m	£5.35m	£5.43m	£5.50m	£5.56m	£5.62m	£5.68m	£5.74m	£5.79m
L : Real estate activities	£127.59m	£97.09m	£122.65m	£98.82m	£88.55m	£89.40m	£87.39m	£86.91m	£87.01m	£88.37m	£90.98m	£93.18m	£95.12m	£97.00m	£98.86m	£100.70m	£102.51m	£104.28m
M : Professional, scientific and technical activities	£14.34m	£16.20m	£15.27m	£16.95m	£16.38m	£16.08m	£16.51m	£16.97m	£17.22m	£17.61m	£18.27m	£18.61m	£18.85m	£19.04m	£19.21m	£19.38m	£19.63m	£19.89m
N : Administrative and support service activities	£9.95m	£9.21m	£9.24m	£12.01m	£10.65m	£8.16m	£9.07m	£10.20m	£10.19m	£10.41m	£10.82m	£11.11m	£11.35m	£11.57m	£11.77m	£11.97m	£12.15m	£12.34m
O : Public administration and defence; compulsory social security	£8.29m	£8.58m	£16.19m	£15.98m	£17.57m	£17.73m	£17.25m	£17.04m	£17.00m	£16.92m	£16.96m	£17.07m	£17.14m	£17.18m	£17.19m	£17.16m	£17.13m	£17.09m
P : Education	£17.06m	£15.74m	£15.99m	£15.09m	£16.66m	£11.98m	£13.30m	£13.88m	£13.89m	£13.93m	£14.02m	£14.09m	£14.12m	£14.14m	£14.15m	£14.17m	£14.18m	£14.18m
Q : Human health and social work activities	£24.24m	£25.93m	£28.12m	£26.13m	£24.89m	£23.01m	£29.79m	£27.81m	£27.49m	£27.75m	£28.20m	£28.60m	£28.95m	£29.22m	£29.47m	£29.72m	£29.94m	£30.14m
R : Arts, entertainment and recreation	£21.88m	£18.81m	£18.93m	£20.33m	£20.32m	£16.98m	£20.34m	£23.19m	£23.18m	£23.76m	£24.75m	£25.21m	£25.51m	£25.72m	£25.91m	£26.08m	£26.36m	£26.65m
S_U : Other service activities	£6.66m	£8.95m	£11.07m	£13.12m	£11.17m	£10.74m	£10.75m	£12.74m	£13.03m	£13.38m	£13.90m	£14.19m	£14.39m	£14.53m	£14.66m	£14.79m	£14.90m	£15.01m

Table 5 Gross value added (GVA) by industry (£) – change.

Industry	Change 2020 - 2022	Absolute change	Change 2022 - 2027	Absolute change	Change 2027 - 2030	Absolute change	Change Mid Term (2022 - 2025)	Absolute change	Change Long Term (2025 - 2032)	Absolute change
Total	14.0%	£50.35m	7.9%	£32.39m	3.5%	£15.61m	4.1%	£16.92m	9.7%	£41.25m
A : Agriculture, forestry and fishing	12.4%	£1.38m	3.2%	£0.40m	1.0%	£0.13m	1.6%	£0.20m	2.6%	£0.33m
B : Mining and quarrying	-10.2%	-£0.22m	-10.8%	-£0.21m	-6.0%	-£0.10m	-7.7%	-£0.15m	-13.1%	-£0.23m
C : Manufacturing	5.9%	£1.76m	6.4%	£2.04m	3.4%	£1.15m	3.4%	£1.07m	8.6%	£2.83m
D : Electricity, gas, steam and air conditioning supply	-2.1%	-£0.05m	7.6%	£0.18m	4.4%	£0.11m	4.0%	£0.09m	11.0%	£0.26m
E : Water supply; sewerage, waste management and remediation activities	0.0%	£0.00m	0.0%	£0.00m	0.0%	£0.00m	0.0%	£0.00m	0.0%	£0.00m
F : Construction	29.3%	£6.63m	11.0%	£3.22m	4.2%	£1.38m	6.8%	£2.00m	10.8%	£3.38m
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	0.0%	-£0.01m	4.8%	£2.28m	2.7%	£1.33m	1.7%	£0.79m	7.4%	£3.58m
H : Transportation and storage	21.9%	£0.80m	7.2%	£0.32m	2.5%	£0.12m	3.7%	£0.16m	7.3%	£0.34m
I : Accommodation and food service activities	71.6%	£25.11m	10.6%	£6.36m	3.5%	£2.36m	5.0%	£3.03m	11.9%	£7.51m
J : Information and communication	19.4%	£0.86m	14.1%	£0.75m	7.4%	£0.45m	7.4%	£0.39m	19.4%	£1.11m
K : Financial and insurance activities	-10.1%	-£0.58m	6.7%	£0.34m	3.2%	£0.18m	3.7%	£0.19m	8.4%	£0.45m
L : Real estate activities	-2.8%	-£2.49m	9.5%	£8.21m	5.9%	£5.58m	4.7%	£4.06m	14.6%	£13.30m
M : Professional, scientific and technical activities	5.6%	£0.90m	11.1%	£1.88m	2.8%	£0.53m	7.6%	£1.29m	8.9%	£1.63m
N : Administrative and support service activities	25.0%	£2.04m	11.3%	£1.16m	5.4%	£0.61m	6.1%	£0.62m	14.1%	£1.52m
O : Public administration and defence; compulsory social security	-3.9%	-£0.69m	0.6%	£0.10m	0.1%	£0.02m	-0.5%	-£0.08m	0.7%	£0.12m
P : Education	15.8%	£1.90m	1.7%	£0.24m	0.3%	£0.05m	1.0%	£0.14m	1.2%	£0.17m
Q : Human health and social work activities	20.9%	£4.80m	4.1%	£1.14m	2.7%	£0.77m	1.4%	£0.39m	6.9%	£1.95m
R : Arts, entertainment and recreation	36.6%	£6.21m	10.0%	£2.32m	2.2%	£0.57m	6.7%	£1.56m	7.7%	£1.90m
S_U : Other service activities	18.7%	£2.00m	12.9%	£1.64m	2.8%	£0.40m	9.1%	£0.00m	8.0%	£1.11m

Table 6 Total employment by industry (people).

Industry	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Total	8,100	7,900	8,500	8,400	8,700	8,900	8,300	8,400	8,300	8,400	8,700	8,800	8,800	8,800	8,900	8,900	8,900	8,900
A : Agriculture, forestry and fishing	200	300	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
B : Mining and quarrying	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C : Manufacturing	500	400	300	400	300	300	300	300	300	300	300	300	300	300	300	300	300	300
D : Electricity, gas, steam and air conditioning supply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E : Water supply; sewerage, waste management and remediation activities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F : Construction	600	700	700	800	700	600	500	500	500	500	500	500	600	600	600	600	600	600
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	1,100	1,100	1,300	1,300	1,300	1,300	1,100	1,100	1,100	1,100	1,200	1,200	1,200	1,200	1,200	1,100	1,100	1,100
H : Transportation and storage	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
I : Accommodation and food service activities	1,500	1,600	1,700	1,600	2,100	2,000	1,800	1,800	1,800	1,800	1,900	2,000	2,000	2,000	2,000	2,000	2,000	2,000
J : Information and communication	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
K : Financial and insurance activities	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100
L : Real estate activities	600	400	600	300	300	400	400	400	400	400	400	400	400	400	400	400	400	400
M : Professional, scientific and technical activities	300	300	300	300	300	400	400	400	400	400	400	400	400	400	400	400	400	400
N : Administrative and support service activities	200	200	200	300	200	200	300	300	200	300	300	300	300	300	300	300	300	300
O : Public administration and defence; compulsory social security	100	100	300	300	300	300	300	300	300	300	200	200	200	200	200	200	200	200
P : Education	600	600	500	500	600	500	500	500	500	500	500	500	500	500	500	500	500	500
Q : Human health and social work activities	800	900	800	800	700	800	800	800	700	800	800	800	800	800	800	800	800	800
R : Arts, entertainment and recreation	1,100	900	1,000	1,000	1,100	1,200	1,200	1,200	1,200	1,200	1,300	1,300	1,300	1,400	1,400	1,400	1,400	1,400
S_U : Other service activities	200	300	300	300	300	400	300	300	300	300	300	300	300	400	400	400	400	400



Table 7 Total employment by industry (people) – change.

Industry	Change 2020 - 2022	Absolute change	Change 2022 - 2027	Absolute change	Change 2027 - 2030	Absolute change	Change Mid Term (2022 - 2025)	Absolute change	Change Long Term (2025 - 2032)	Absolute change
Total	-5.5%	-500	5.4%	400	0.3%	0	3.4%	300	2.3%	200
A : Agriculture, forestry and fishing	-8.7%	0	0.8%	0	-1.1%	0	1.1%	0	-2.6%	0
B : Mining and quarrying	-7.8%	0	-11.5%	0	-8.8%	0	-6.7%	0	-18.9%	0
C : Manufacturing	-2.1%	0	-8.2%	0	-6.9%	0	-4.7%	0	-14.7%	0
D : Electricity, gas, steam and air conditioning supply	-3.9%	0	-2.9%	0	-4.0%	0	-0.9%	0	-8.7%	0
E : Water supply; sewerage, waste management and remediation activities	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
F : Construction	-13.6%	-100	4.2%	0	1.7%	0	2.2%	0	4.4%	0
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	-10.3%	-100	3.2%	0	-1.8%	0	2.3%	0	-2.4%	0
H : Transportation and storage	2.4%	0	6.0%	0	-2.6%	0	4.7%	0	-3.7%	0
I : Accommodation and food service activities	-9.3%	-200	10.8%	200	0.6%	0	7.3%	100	4.0%	100
J : Information and communication	8.2%	0	6.7%	0	-1.2%	0	4.5%	0	-0.9%	0
K : Financial and insurance activities	-3.0%	0	1.7%	0	0.2%	0	1.6%	0	0.2%	0
L : Real estate activities	0.9%	0	2.5%	0	0.3%	0	1.6%	0	1.0%	0
M : Professional, scientific and technical activities	0.4%	0	9.9%	0	2.1%	0	6.4%	0	7.5%	0
N : Administrative and support service activities	3.0%	0	5.9%	0	1.8%	0	3.3%	0	5.6%	0
O : Public administration and defence; compulsory social security	-1.0%	0	-4.1%	0	-2.6%	0	-3.3%	0	-5.2%	0
P : Education	-1.4%	0	-2.9%	0	-0.9%	0	-1.5%	0	-2.3%	0
Q : Human health and social work activities	-0.3%	0	2.5%	0	1.5%	0	0.5%	0	4.3%	0
R : Arts, entertainment and recreation	-2.7%	0	11.0%	100	3.0%	0	7.0%	100	9.6%	100
S_U : Other service activities	-8.6%	0	6.7%	0	1.2%	0	4.0%	0	3.7%	0



Table 8 Expansion demand by industry (people).

Industry	2020 - 2022	2022 - 2027	2027 - 2030	Mid-Term (2022 - 2025)	Long- Term (2025 - 2032)
Total	-500	400	0	300	200
A : Agriculture, forestry and fishing	0	0	0	0	0
B : Mining and quarrying	0	0	0	0	0
C : Manufacturing	0	0	0	0	0
D : Electricity, gas, steam and air conditioning supply	0	0	0	0	0
E : Water supply; sewerage, waste management and remediation activities	0	0	0	0	0
F : Construction	-100	0	0	0	0
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	-100	0	0	0	0
H : Transportation and storage	0	0	0	0	0
I : Accommodation and food service activities	-200	200	0	100	100
J : Information and communication	0	0	0	0	0
K : Financial and insurance activities	0	0	0	0	0
L : Real estate activities	0	0	0	0	0
M : Professional, scientific and technical activities	0	0	0	0	0
N : Administrative and support service activities	0	0	0	0	0
O : Public administration and defence; compulsory social security	0	0	0	0	0
P : Education	0	0	0	0	0
Q : Human health and social work activities	0	0	0	0	0
R : Arts, entertainment and recreation	0	100	0	100	100
S_U : Other service activities	0	0	0	0	0



Table 9 Replacement demand by industry (people).

Industry	2020 - 2022	2022 - 2027	2027 - 2030	Mid-Term (2022 - 2025)	Long- Term (2025 - 2032)
Total	800	1,600	1,000	900	2,300
A : Agriculture, forestry and fishing	0	100	0	100	100
B : Mining and quarrying	0	0	0	0	0
C : Manufacturing	0	0	0	0	0
D : Electricity, gas, steam and air conditioning supply	0	0	0	0	0
E : Water supply; sewerage, waste management and remediation activities	0	0	0	0	0
F : Construction	0	100	0	0	100
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	100	300	200	200	400
H : Transportation and storage	0	0	0	0	100
I : Accommodation and food service activities	200	500	300	300	700
J : Information and communication	0	0	0	0	0
K : Financial and insurance activities	0	0	0	0	0
L : Real estate activities	0	0	0	0	0
M : Professional, scientific and technical activities	0	0	0	0	0
N : Administrative and support service activities	0	100	0	0	100
O : Public administration and defence; compulsory social security	0	0	0	0	100
P : Education	0	100	100	100	100
Q : Human health and social work activities	0	100	100	100	100
R : Arts, entertainment and recreation	200	300	200	200	500
S_U : Other service activities	0	0	0	0	0



Table 10 Total requirement by industry (people).

Industry	2020 - 2022	2022 - 2027	2027 - 2030	Mid-Term (2022 - 2025)	Long- Term (2025 - 2032)
Total	300	2,000	1,000	1,200	2,500
A : Agriculture, forestry and fishing	0	100	0	100	100
B : Mining and quarrying	0	0	0	0	0
C : Manufacturing	0	0	0	0	0
D : Electricity, gas, steam and air conditioning supply	0	0	0	0	0
E : Water supply; sewerage, waste management and remediation activities	0	0	0	0	0
F : Construction	0	100	100	100	100
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	0	300	100	200	400
H : Transportation and storage	0	100	0	0	100
I : Accommodation and food service activities	0	700	300	400	800
J : Information and communication	0	0	0	0	0
K : Financial and insurance activities	0	0	0	0	0
L : Real estate activities	0	0	0	0	0
M : Professional, scientific and technical activities	0	0	0	0	0
N : Administrative and support service activities	0	100	0	0	100
O : Public administration and defence; compulsory social security	0	0	0	0	100
P : Education	0	100	0	0	100
Q : Human health and social work activities	0	100	100	100	200
R : Arts, entertainment and recreation	100	500	300	300	600
S_U : Other service activities	0	0	0	0	0

	Occupation	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	Total	8,100	7,900	8,500	8,400	8,700	8,900	8,300	8,400	8,300	8,400	8,700	8,800	8,800	8,800	8,900	8,900	8,900	8,900
Major	1 Managers, directors & senior officials	900	900	1,000	900	1,000	1,100	1,000	1,000	1,000	1,000	1,000	1,100	1,100	1,100	1,100	1,100	1,100	1,100
	2 Professional occupations	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,200	1,200	1,200	1,200	1,200	1,200	1,200
	3 Associate professional & technical occupations	900	800	1,000	900	900	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,100	1,100	1,100	1,100
	4 Administrative & secretarial occupations	800	700	800	700	700	800	800	800	700	800	800	800	800	800	800	800	800	800
	5 Skilled trades occupations	1,100	1,100	1,200	1,300	1,200	1,200	1,100	1,100	1,100	1,100	1,100	1,200	1,200	1,200	1,200	1,200	1,200	1,200
	6 Caring, leisure & other service occupations	1,000	900	900	900	900	900	900	900	900	900	900	900	1,000	1,000	1,000	1,000	1,000	1,000
	7 Sales & customer service occupations	700	700	700	700	700	700	600	600	600	600	700	700	700	700	700	700	700	600
	8 Process, plant & machine operatives	400	400	400	500	400	500	400	400	400	400	400	400	400	500	500	500	500	500
	9 Elementary occupations	1,400	1,400	1,400	1,400	1,600	1,600	1,400	1,400	1,400	1,400	1,400	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Minor	11 Corporate Managers	400	400	400	400	400	400	400	400	400	400	400	400	500	500	500	500	500	500
	12 Managers / Proprietors in agriculture and services	500	500	600	500	600	600	600	600	600	600	600	600	600	600	600	600	600	600
	21 Science and Technology Professionals	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	22 Health Professionals	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
	23 Teaching and Research Professionals	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
	24 Business and Public Service Professionals	300	300	300	300	300	400	300	300	300	300	400	400	400	400	400	400	400	400
	31 Science and Technology Associate Professionals	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	32 Health and Social Welfare Associate Professionals	200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	33 Protective Service Occupations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	34 Culture, Media and Sports Occupations	200	200	200	200	300	300	300	300	300	300	300	300	300	300	300	300	400	400
	35 Business and Public Service Associate Professionals	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	41 Administrative Occupations	500	500	600	500	600	600	600	600	600	600	600	600	600	600	600	600	600	600
	42 Secretarial and Related Occupations	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	51 Skilled Agricultural Trades	200	200	200	200														

Table 12 Total employment by occupation (people) – change.

	Occupation	Change 2020 - 2022	Absolute change	Change 2022 - 2027	Absolute change	Change 2027 - 2030	Absolute change	Change Mid Term (2022 - 2025)	Absolute change	Change Long Term (2025 - 2032)	Absolute change
	Total	-5.5%	-500	5.4%	400	0.3%	0	3.4%	300	2.3%	200
Major	1 Managers, directors & senior officials	-5.7%	-100	7.8%	100	1.1%	0	5.1%	100	4.4%	0
	2 Professional occupations	-1.5%	0	3.9%	0	1.0%	0	2.3%	0	3.4%	0
	3 Associate professional & technical occupations	-2.0%	0	6.5%	100	1.7%	0	4.0%	0	5.4%	100
	4 Administrative & secretarial occupations	-4.7%	0	2.3%	0	-0.9%	0	1.5%	0	-0.8%	0
	5 Skilled trades occupations	-8.7%	-100	4.4%	0	-0.3%	0	2.9%	0	0.7%	0
	6 Caring, leisure & other service occupations	-3.1%	0	5.8%	100	1.4%	0	3.4%	0	4.8%	0
	7 Sales & customer service occupations	-8.9%	-100	3.5%	0	-1.5%	0	2.5%	0	-1.7%	0
	8 Process, plant & machine operatives	-5.1%	0	5.5%	0	0.3%	0	3.6%	0	2.2%	0
	9 Elementary occupations	-8.2%	-100	7.0%	100	-0.4%	0	4.8%	100	1.2%	0
Minor	11 Corporate Managers	-4.8%	0	7.4%	0	1.6%	0	4.6%	0	5.4%	0
	12 Managers / Proprietors in agriculture and services	-6.3%	0	8.2%	0	0.8%	0	5.4%	0	3.7%	0
	21 Science and Technology Professionals	-1.2%	0	4.6%	0	0.2%	0	2.9%	0	1.9%	0
	22 Health Professionals	-0.9%	0	4.0%	0	1.8%	0	1.6%	0	5.1%	0
	23 Teaching and Research Professionals	-1.7%	0	-1.6%	0	-0.6%	0	-0.8%	0	-1.3%	0
	24 Business and Public Service Professionals	-2.1%	0	7.8%	0	2.1%	0	4.8%	0	6.6%	0
	31 Science and Technology Associate Professionals	-3.0%	0	2.3%	0	-0.8%	0	1.5%	0	-0.6%	0
	32 Health and Social Welfare Associate Professionals	-1.5%	0	3.5%	0	1.2%	0	1.7%	0	3.6%	0
	33 Protective Service Occupations	-2.0%	0	-6.2%	0	-4.1%	0	-4.5%	0	-8.5%	0
	34 Culture, Media and Sports Occupations	-0.5%	0	15.3%	0	5.4%	0	9.4%	0	15.5%	0
	35 Business and Public Service Associate Professionals	-3.0%	0	3.8%	0	0.1%	0	2.4%	0	1.4%	0
	41 Administrative Occupations	-4.1%	0	3.7%	0	-0.1%	0	2.3%	0	1.3%	0
	42 Secretarial and Related Occupations	-6.3%	0	-1.8%	0	-3.7%	0	-0.9%	0	-7.1%	0
	51 Skilled Agricultural Trades	-6.4%	0	3.7%	0	0.2%	0	2.7%	0	1.2%	0
	52 Skilled Metal and Electrical Trades	-6.7%	0	1.3%	0	-1.6%	0	1.0%	0	-2.4%	0
	53 Skilled Construction and Building Trades	-12.5%	0	2.4%	0	0.3%	0	1.2%	0	1.3%	0
	54 Textiles, Printing and Other Skilled Trades	-8.4%	0	8.1%	0	-0.1%	0	5.5%	0	2.1%	0
	61 Caring Personal Service Occupations	-1.1%	0	4.6%	0	2.0%	0	2.2%	0	5.7%	0
	62 Leisure and Other Personal Service Occupations	-5.4%	0	7.2%	0	0.8%	0	4.6%	0	3.7%	0
	71 Sales Occupations	-9.9%	-100	3.0%	0	-2.0%	0	2.2%	0	-2.7%	0
	72 Customer Service Occupations	-3.6%	0	6.1%	0	0.5%	0	3.9%	0	2.9%	0
	81 Process, Plant and Machine Operatives	-6.6%	0	1.1%	0	-1.2%	0	0.7%	0	-1.7%	0
	82 Transport and Mobile Machine Drivers and Operatives	-4.1%	0	8.6%	0	1.3%	0	5.6%	0	4.8%	0
	91 Elementary Occupations: Trades, Plant and Storage related	-9.1%	0	0.2%	0	-1.2%	0	0.2%	0	-2.3%	0
	92 Elementary Occupations: Clerical and Services related	-8.1%	-100	7.6%	100	-0.3%	0	5.1%	100	1.5%	0



Table 13 Expansion demand by occupation (people).

	Occupation	2020 - 2022	2022 - 2027	2027 - 2030	Mid- Term (2022 - 2025)	Long- Term (2025 - 2032)
	Total	-500	400	0	300	200
Major	1 Managers, directors & senior officials	-100	100	0	100	0
	2 Professional occupations	0	0	0	0	0
	3 Associate professional & technical occupations	0	100	0	0	100
	4 Administrative & secretarial occupations	0	0	0	0	0
	5 Skilled trades occupations	-100	0	0	0	0
	6 Caring, leisure & other service occupations	0	100	0	0	0
	7 Sales & customer service occupations	-100	0	0	0	0
	8 Process, plant & machine operatives	0	0	0	0	0
	9 Elementary occupations	-100	100	0	100	0
Minor	11 Corporate Managers	0	0	0	0	0
	12 Managers / Proprietors in agriculture and services	0	0	0	0	0
	21 Science and Technology Professionals	0	0	0	0	0
	22 Health Professionals	0	0	0	0	0
	23 Teaching and Research Professionals	0	0	0	0	0
	24 Business and Public Service Professionals	0	0	0	0	0
	31 Science and Technology Associate Professionals	0	0	0	0	0
	32 Health and Social Welfare Associate Professionals	0	0	0	0	0
	33 Protective Service Occupations	0	0	0	0	0
	34 Culture, Media and Sports Occupations	0	0	0	0	0
	35 Business and Public Service Associate Professionals	0	0	0	0	0
	41 Administrative Occupations	0	0	0	0	0
	42 Secretarial and Related Occupations	0	0	0	0	0



	Occupation	2020 - 2022	2022 - 2027	2027 - 2030	Mid- Term (2022 - 2025)	Long- Term (2025 - 2032)
	51 Skilled Agricultural Trades	0	0	0	0	0
	52 Skilled Metal and Electrical Trades	0	0	0	0	0
	53 Skilled Construction and Building Trades	0	0	0	0	0
	54 Textiles, Printing and Other Skilled Trades	0	0	0	0	0
	61 Caring Personal Service Occupations	0	0	0	0	0
	62 Leisure and Other Personal Service Occupations	0	0	0	0	0
	71 Sales Occupations	-100	0	0	0	0
	72 Customer Service Occupations	0	0	0	0	0
	81 Process, Plant and Machine Operatives	0	0	0	0	0
	82 Transport and Mobile Machine Drivers and Operatives	0	0	0	0	0
	91 Elementary Occupations: Trades, Plant and Storage related	0	0	0	0	0
	92 Elementary Occupations: Clerical and Services related	-100	100	0	100	0





Table 14 Replacement demand by occupation (people).

	Occupation	2020 - 2022	2022 - 2027	2027 - 2030	Mid- Term (2022 - 2025)	Long- Term (2025 - 2032)
	Total	800	1,600	1,000	900	2,300
Major	1 Managers, directors & senior officials	0	100	100	100	100
	2 Professional occupations	100	300	200	200	400
	3 Associate professional & technical occupations	100	100	100	100	200
	4 Administrative & secretarial occupations	0	100	100	100	100
	5 Skilled trades occupations	100	200	100	100	300
	6 Caring, leisure & other service occupations	100	100	100	100	200
	7 Sales & customer service occupations	100	100	100	100	200
	8 Process, plant & machine operatives	0	100	0	0	100
	9 Elementary occupations	200	400	300	300	600
Minor	11 Corporate Managers	0	100	0	0	100
	12 Managers / Proprietors in agriculture and services	0	0	0	0	0
	21 Science and Technology Professionals	0	0	0	0	100
	22 Health Professionals	0	100	0	0	100
	23 Teaching and Research Professionals	100	100	100	100	200
	24 Business and Public Service Professionals	0	100	0	0	100
	31 Science and Technology Associate Professionals	0	0	0	0	100
	32 Health and Social Welfare Associate Professionals	0	0	0	0	0
	33 Protective Service Occupations	0	0	0	0	0
	34 Culture, Media and Sports Occupations	0	100	0	0	100
	35 Business and Public Service Associate Professionals	0	0	0	0	0
	41 Administrative Occupations	0	100	0	0	100
	42 Secretarial and Related Occupations	0	0	0	0	0
	51 Skilled Agricultural Trades	0	0	0	0	100



	Occupation	2020 - 2022	2022 - 2027	2027 - 2030	Mid- Term (2022 - 2025)	Long- Term (2025 - 2032)
	52 Skilled Metal and Electrical Trades	0	0	0	0	0
	53 Skilled Construction and Building Trades	0	0	0	0	0
	54 Textiles, Printing and Other Skilled Trades	100	100	100	100	200
	61 Caring Personal Service Occupations	0	100	0	0	100
	62 Leisure and Other Personal Service Occupations	0	100	0	0	100
	71 Sales Occupations	100	100	100	100	200
	72 Customer Service Occupations	0	0	0	0	0
	81 Process, Plant and Machine Operatives	0	0	0	0	0
	82 Transport and Mobile Machine Drivers and Operatives	0	0	0	0	100
	91 Elementary Occupations: Trades, Plant and Storage related	0	100	0	0	100
	92 Elementary Occupations: Clerical and Services related	200	400	200	200	600



Table 15 Total requirement by occupation (people).

	Occupation	2020 - 2022	2022 - 2027	2027 - 2030	Mid- Term (2022 - 2025)	Long- Term (2025 - 2032)
	Total	300	2,000	1,000	1,200	2,500
Major	1 Managers, directors & senior officials	0	200	100	100	200
	2 Professional occupations	100	300	200	200	400
	3 Associate professional & technical occupations	0	200	100	100	200
	4 Administrative & secretarial occupations	0	100	100	100	100
	5 Skilled trades occupations	0	300	100	200	300
	6 Caring, leisure & other service occupations	100	200	100	100	300
	7 Sales & customer service occupations	0	200	100	100	200
	8 Process, plant & machine operatives	0	100	0	0	100
	9 Elementary occupations	100	500	300	300	600
Minor	11 Corporate Managers	0	100	100	100	100
	12 Managers / Proprietors in agriculture and services	0	100	0	0	0
	21 Science and Technology Professionals	0	0	0	0	100
	22 Health Professionals	0	100	0	0	100
	23 Teaching and Research Professionals	100	100	100	100	200
	24 Business and Public Service Professionals	0	100	0	100	100
	31 Science and Technology Associate Professionals	0	100	0	0	100
	32 Health and Social Welfare Associate Professionals	0	0	0	0	0
	33 Protective Service Occupations	0	0	0	0	0
	34 Culture, Media and Sports Occupations	0	100	100	100	200
	35 Business and Public Service Associate Professionals	0	0	0	0	0
	41 Administrative Occupations	0	100	0	100	100
	42 Secretarial and Related Occupations	0	0	0	0	0
	51 Skilled Agricultural Trades	0	100	0	0	100



	Occupation	2020 - 2022	2022 - 2027	2027 - 2030	Mid- Term (2022 - 2025)	Long- Term (2025 - 2032)
	52 Skilled Metal and Electrical Trades	0	0	0	0	0
	53 Skilled Construction and Building Trades	0	0	0	0	0
	54 Textiles, Printing and Other Skilled Trades	0	100	100	100	200
	61 Caring Personal Service Occupations	0	100	100	100	100
	62 Leisure and Other Personal Service Occupations	0	100	0	100	100
	71 Sales Occupations	0	200	100	100	200
	72 Customer Service Occupations	0	0	0	0	0
	81 Process, Plant and Machine Operatives	0	0	0	0	0
	82 Transport and Mobile Machine Drivers and Operatives	0	100	0	0	100
	91 Elementary Occupations: Trades, Plant and Storage related	0	100	0	0	100
	92 Elementary Occupations: Clerical and Services related	100	500	200	300	600