

The Economy¹



Gross Value Added (GVA)² in 2019

Total **Engineering** GVA is: **£9,804m**
up 19% from 2009

Forecast GVA in 2029: **£11,617m**
up 18% from 2019



Productivity (GVA per job) in 2019

Engineering productivity is: **£61,638**
up 18% from 2009

Productivity across **all sectors** is: **£50,368**
up 13% from 2009

Forecast productivity in 2029: **£73,595**
up 19% from 2019

Forecast productivity in 2029: **£57,747**
up 15% from 2019

Employment



Top Employing Regions 2019³

Glasgow City Deal Region: 42,700 jobs

Aberdeen City and Shire: 42,200 jobs

Edinburgh, East and Midlothian: 19,500 jobs

Fife: 11,400 jobs

Ayrshire: 8,600 jobs

Scotland Total⁴ Jobs in 2019: 159,100 jobs

Gender split⁵

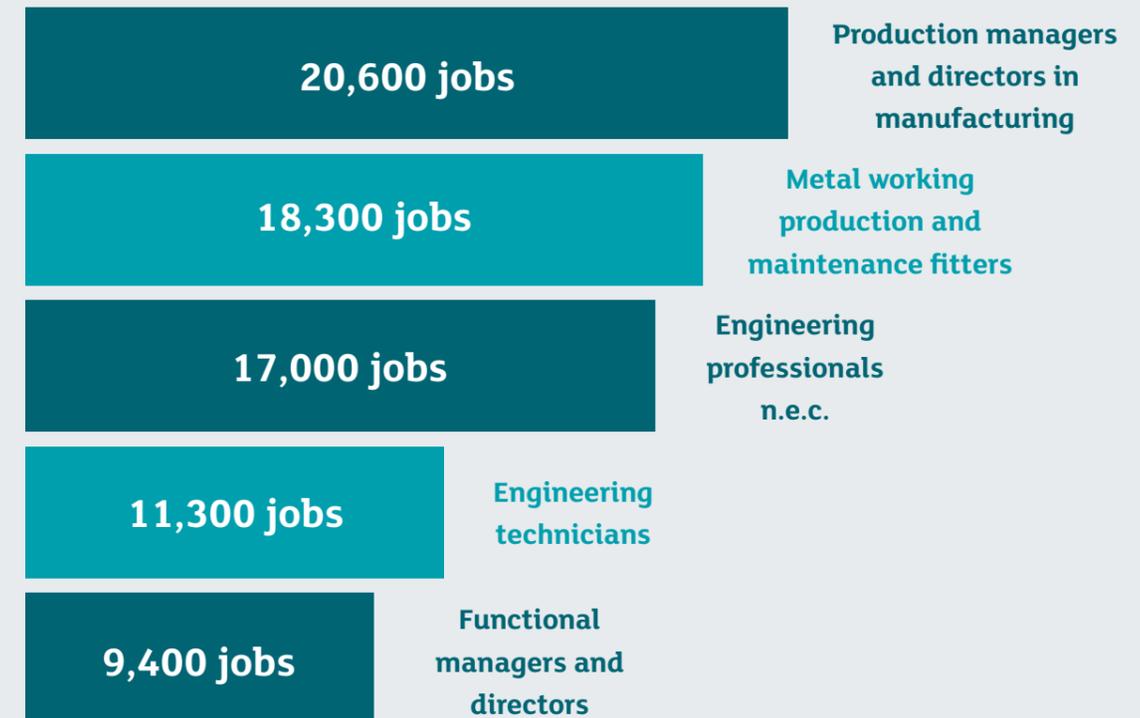


Ethnicity



Current Demand for Skills

Top employing occupations 2019^{6,7}



Future Job Openings

From 2019 to 2029 there will be a requirement for:



¹ Forecasts by Oxford Economics (unless otherwise stated).
² GVA is the measure of the value of goods and services produced within the economy. GVA in constant 2016 prices.
³ Measured by total number of jobs.
⁴ Please note that 2019 is a forecast figure.

⁵ Source: Annual Population Survey (APS) April 2018–March 2019. This dataset is different to Oxford Economics and may not sum to reflect the Scotland total above. Due to data availability the sectoral definitions vary from those we have used elsewhere in this infographic. E.g. for Engineering we have used 'Manufacturing' and therefore figures may not sum to Scotland's total.

⁶ Total Employment by occupation is provided here at four digit Standard Occupational Classification level.
⁷ These top five occupations by total employment have been identified by the Key Sector Manager who works closely with industry experts and employers. Data is not split by sector as with other sections. Total employment here represents Scotland as a whole.

⁸ Expansion demand is the measure of an increase/decrease in jobs, as a result of economic growth or contraction; replacement demand is the number of job openings generated through labour market churn (i.e. those who retire, move away, or change jobs). N.B. Some figures may not sum due to rounding.

Vacancies^{9,10}

Vacancies 2018



Glasgow City
2,028 vacancies
accounting for 31%

Aberdeen City
1,816 vacancies
accounting for 28%

City of Edinburgh
900 vacancies
accounting for 14%



Welding Trades
284 vacancies
accounting for 4%



Sales Related Occupations
282 vacancies
accounting for 4%



Engineering Professionals
200 vacancies
accounting for 3%

Total vacancies in Engineering:
6,535 vacancies



Salary 2018

Median real-time advertised salary in Engineering:
£30,000



Gender Pay-Gap¹¹

17.2%
Scotland: 5.7%

Skills Shortage Vacancies and Gaps¹²

Skills Shortage Vacancies¹³

Density of Skills Shortage vacancies in Engineering:
21%



Scotland: 24%

Skills Gaps¹⁴

Density of Skills Gaps in Engineering:
7%



Scotland: 5%

Sectoral Insight¹⁵



Employers are keen on using the apprenticeship family as both a **route into the sector** and as a **succession planning tool**.



Upskilling for the existing workforce with **digital skills** to realise the opportunities in advanced manufacturing.



We will continue to **work with the skills supply system** to ensure that the appropriate skills are developed using modern pedagogical methods.



Extend **work-based learning opportunities** for all.



Continue to **develop flexible pathways** which demonstrate that engineering is an attractive sector to plan a career.



Work with primary schools to ensure that engineering is perceived (by young people, families and teachers) as a fun, sustainable and exciting career choice for everyone.

⁹ Source: Burning Glass Technologies Jan 2018 - Dec 2018 (based on calendar year). <http://www.burning-glass.com>.

¹⁰ Burning Glass technologies gather insight on vacancies from online job postings and websites.

¹¹ Source: ONS 2018, based on the Annual Survey of Hours and

Earnings based on full-time employee jobs.

¹² Due to the way the Employer Skills Survey collects and reports data, the sectoral definitions vary from those we have used elsewhere in this infographic. To define the Engineering sector, we have used 'Manufacturing'.

¹³ Base: All establishments with vacancies (only 2017 shown).

Skill-shortage vacancies as a proportion of all vacancies. This may be due to a lack of skills, qualifications or experience amongst applicants.

¹⁴ Base: All establishments (only 2017 shown). Skills gaps: the proportion of the workforce lacking full proficiency.)

¹⁵ Insight provided by the Key Sector Managers who work closely with industry experts and employers.