

# Manufacturing



## Sector Definition

The Manufacturing sector includes the physical or chemical transformation of materials, substances or components into new products.

## At a Glance



40,100  
people in employment



2,515  
Local enterprises



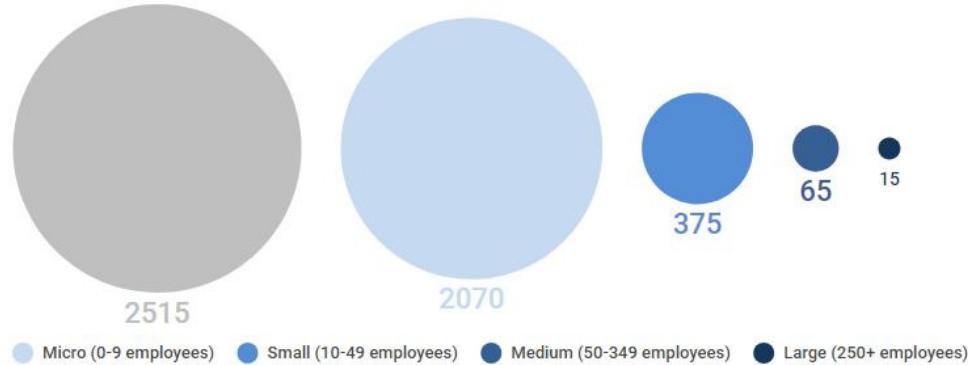
£2.306 billion  
To the local economy



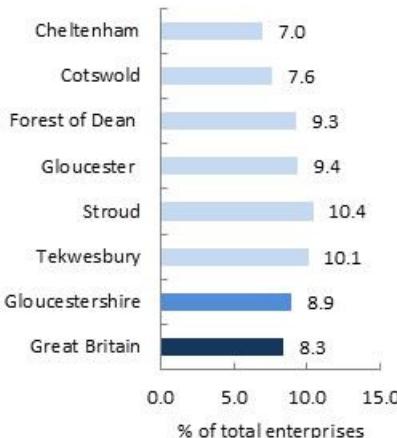
12,652  
Job postings

## Enterprises (2016)

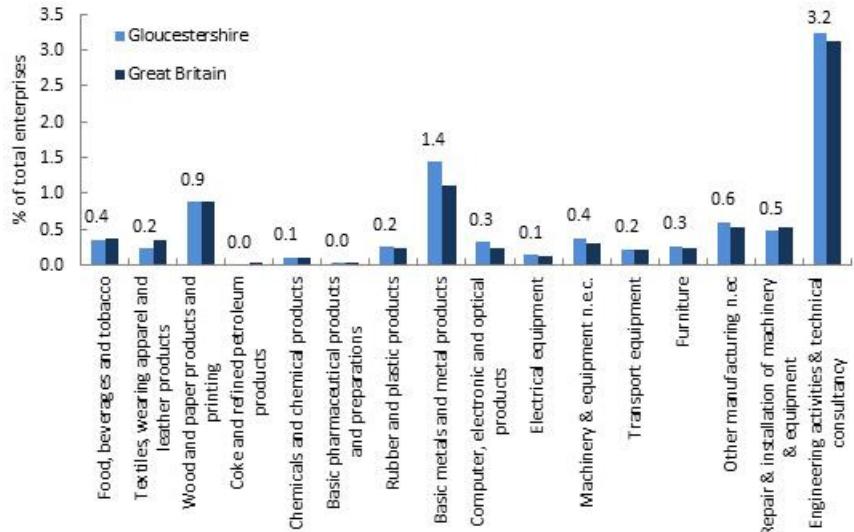
### *Gloucestershire Manufacturing enterprises by size*



### *Manufacturing enterprises by local authority area*



### *Manufacturing enterprises by sub-sector, Gloucestershire and Great Britain*



Source: UK Business Counts-Enterprises (2016)

# Manufacturing



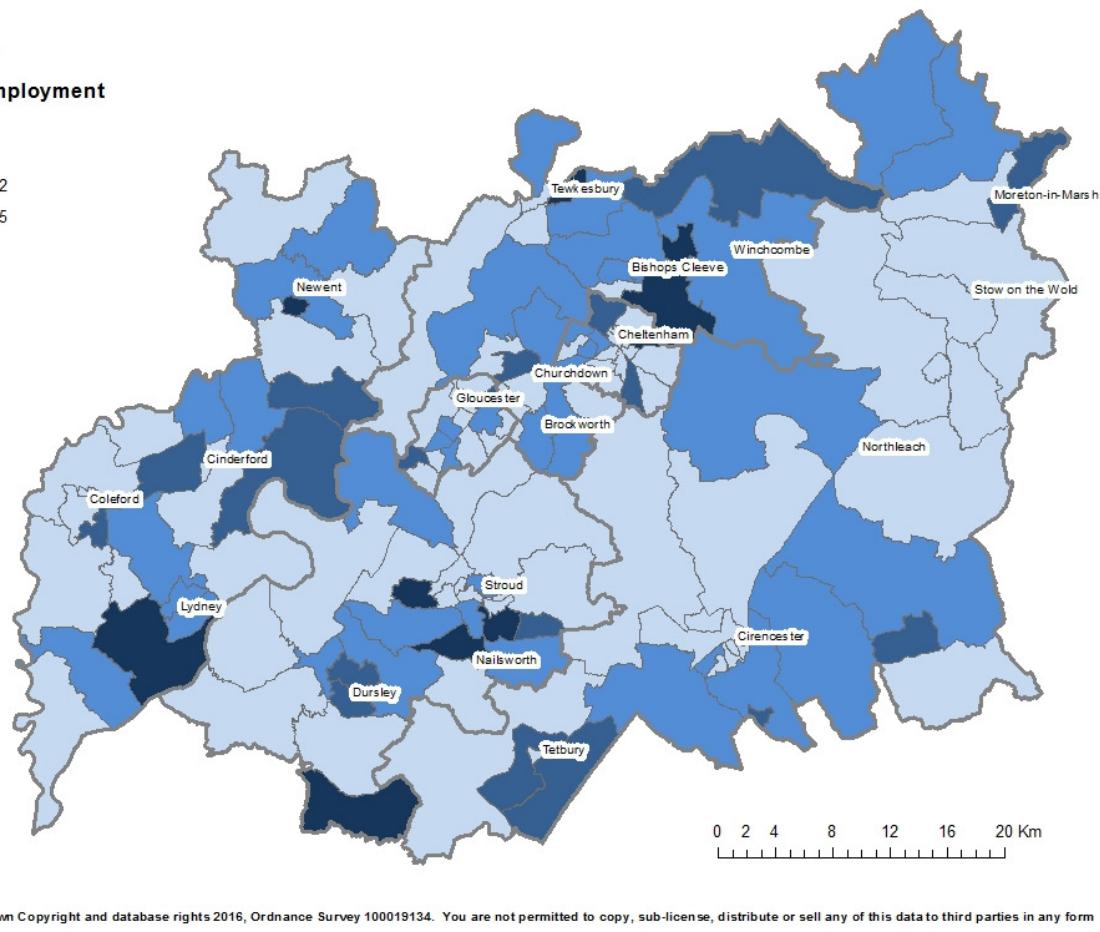
## Employment in Manufacturing (2015)

40,100  
People in employment in Gloucestershire

13.8%  
of all people in employment in Gloucestershire

*Concentration of employment in the Manufacturing sector by ward*

**Key to map**  
**% of total employment**  
0.0 - 9.0  
9.1 - 20.4  
20.5 - 37.2  
37.3 - 72.5



Source: BRES (2015)



Produced by the Strategic Needs Analysis Team, June 2017. For further information please contact [inform.goucestershire@goucestershire.gov.uk](mailto:inform.goucestershire@goucestershire.gov.uk)

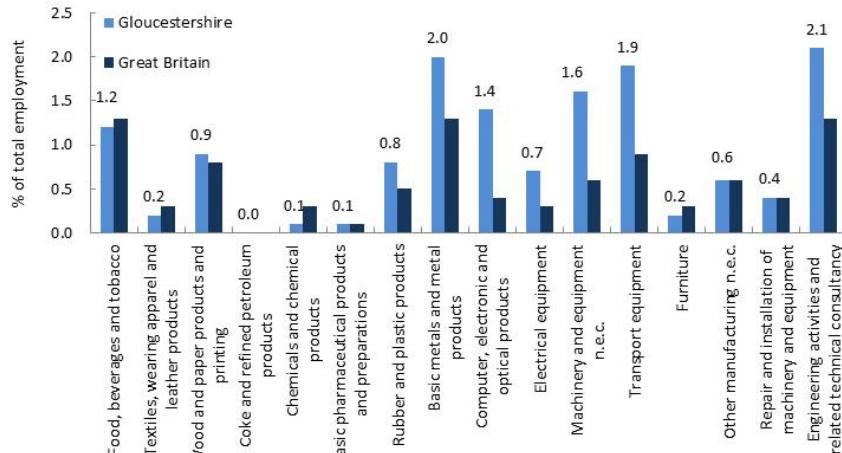
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# Manufacturing

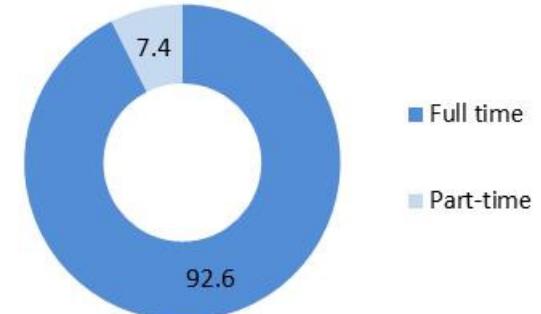


## Employment (2015)

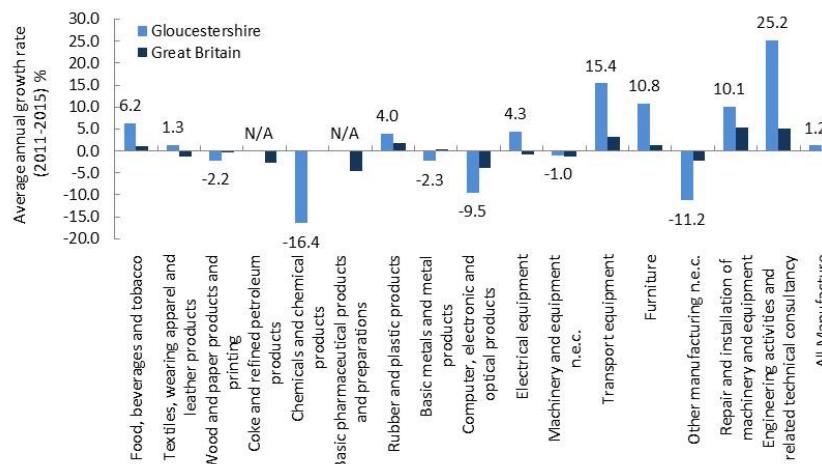
### Manufacturing by sub-sector, Gloucestershire and Great Britain



### Employment status in the Manufacturing sector



### Average annual growth in the Manufacturing sector (2011-2015), Gloucestershire and Great Britain



### Projected change in Manufacturing sector employment (2015-2025)



decrease of 3,500 people or 9.0%

Source: BRES (2015)

Source: LEFM (2015)



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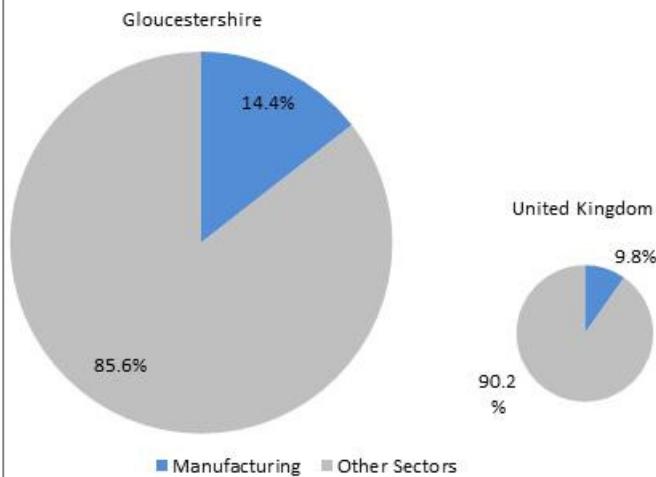


## Gross Value Added (2015)

£2.306 billion

The sector is estimated to be worth £2.306 billion to the Gloucestershire economy.

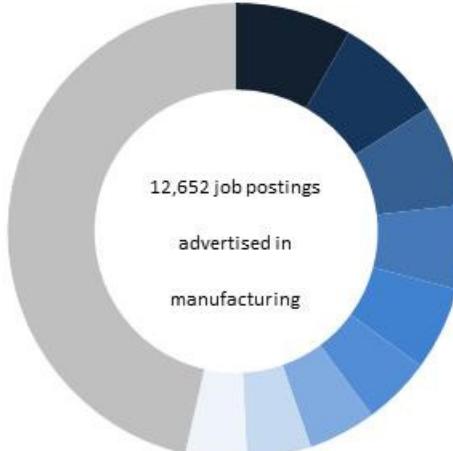
## Contribution of the manufacturing sector to GVA



Regional Gross Value Added (Income Approach) (2015)

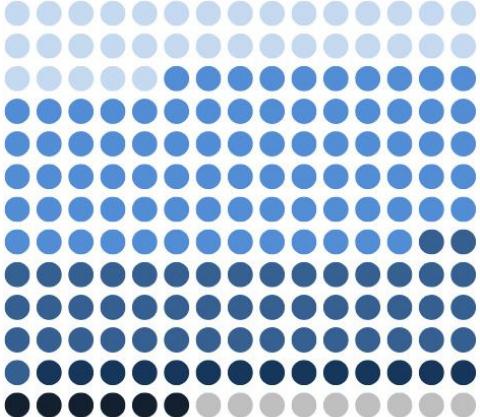
## Job Vacancies (2016/17)

### Top Occupations in demand



- Engineering technicians (1,041)
- Vehicle technicians, mechanics and electricians (974)
- Design and development engineers (913)
- Electrical and electronic trades n.e.c. (756)
- Metal machining setters and setter-operators (748)
- Science, engineering and production technicians n.e.c. (615)
- Production managers and directors in manufacturing (607)
- Metal working production and maintenance fitters (577)
- Plant and machine operatives n.e.c. (550)
- Other manufacturing occupations (5,871)

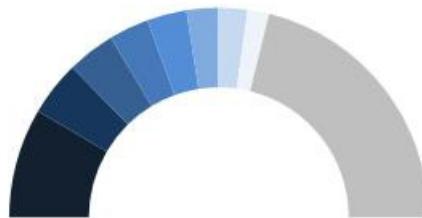
### Distribution of Advertised Salary\*



Less than £20,000   £20,000 - £29,999   £30,000 - £39,999  
£40,000 to £49,999   £50,000 to £59,999   £60,000 or more

Mean salary £30,063

### Generic skills in greatest demand\*



- Communication Skills (2,060)
- Organisational Skills (1,082)
- Team Work/ Collaboration (903)
- Detail-Orientated (755)
- Problem Solving (743)
- Writing (593)
- Planning (550)
- Quality Assurance and Control (404)
- Other generic skills (5,155)

### Specialised skills in greatest demand\*



- Repair (1,752)
- Computer Numerical Control (CNC) (839)
- Inspection (810)
- Machinery (805)
- Customer Service (705)
- Automotive Repair (610)
- Computer Aided Draughting/Design (CAD) (593)
- Mechanical Engineering (580)
- Machining (560)
- Other specialised skills (22,19)

Source: Labour Insight, 2017, please note number of vacancies are indicated in brackets

\* Some vacancies do not specify salary or skills

## Manufacturing



### Example of employers in the sector



MOOG



spirax  
sarco



Corin

Versarien®  
TECHNOLOGIES

# Manufacturing



## Appendix

**SIC codes used to classify the manufacturing sector (used for enterprises, employment and GVA)**

2007 SIC Code	Occupation
10*	Manufacture of food products
11*	Manufacture of beverages
12	Manufacture of tobacco products
13	Manufacture of textiles
14	Manufacture of wearing apparel
15	Manufacture of leather and related products
16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
17	Manufacture of paper and paper products
18	Printing and reproduction of recorded media
19#	Manufacture of coke and refined petroleum products
20	Manufacture of chemicals and chemical products
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations
22	Manufacture of rubber and plastic products
23	Manufacture of other non-metallic mineral products
24#	Manufacture of basic metals
25	Manufacture of fabricated metal products, except machinery and equipment
26	Manufacture of computer, electronic and optical products
27	Manufacture of electrical equipment
28	Manufacture of machinery and equipment n.e.c
29	Manufacture of motor vehicles, trailers and semi-trailers
30	Manufacture of other transport equipment
31	Manufacture of furniture
32	Other manufacturing
33	Repair and installation of machinery and equipment
71.12@	Engineering activities and related technical consultancy

\*these SIC codes also feature in the food and drink sector

# these SIC codes also feature in the energy sector

@ these SIC codes also feature in the finance and professional services sector

**SOC codes used to classify vacancies in the manufacturing sector**

2010 SOC Code	Occupation
1121	Production managers and directors in manufacturing
2121@	Civil engineers
2122@	Mechanical engineers
2123@	Electrical engineers
2124@	Electronics engineers
2126@	Design and development engineers
2127@	Production and process engineers
2129@	Engineering professionals n.e.c.
3112@	Electrical and electronics technicians
3113@	Engineering technicians
3115@	Quality assurance technicians
3116@	Planning, process and production technicians
3119@	Science, engineering and production technicians n.e.c.
5211	Smiths and forge workers
5212	Moulders, core makers and die casters
5213	Sheet metal workers
5214	Metal plate workers, and riveters
5215	Welding trades
5216	Pipe fitters
5221	Metal machining setters and setter-operators
5222	Tool makers, tool fitters and markers-out
5223	Metal working production and maintenance fitters
5224	Precision instrument makers and repairers
5225	Air-conditioning and refrigeration engineers
5231	Vehicle technicians, mechanics and electricians
5232	Vehicle body builders and repairers
5234	Vehicle paint technicians
5235	Aircraft maintenance and related trades
5236	Boat and ship builders and repairers
5237	Rail and rolling stock builders and repairers
5241	Electricians and electrical fitters
5249	Electrical and electronic trades n.e.c.
5250	Skilled metal, electrical and electronic trades supervisors
5411	Weavers and knitters
5412	Upholsterers
5413	Footwear and leather working trades
5414	Tailors and dressmakers
5419	Textiles, garments and related trades n.e.c.
5421	Pre-press technicians
5422	Printers
5423	Print finishing and binding workers
5431*	Butchers

2010 SOC Code	Occupation
5432*	Bakers and flour confectioners
5433*	Fishmongers and poultry dressers
5441	Glass and ceramics makers, decorators and finishers
5442	Furniture makers and other craft woodworkers
5449	Other skilled trades n.e.c.
8111*	Food, drink and tobacco process operatives
8112	Glass and ceramics process operatives
8113	Textile process operatives
8114	Chemical and related process operatives
8115	Rubber process operatives
8116	Plastics process operatives
8117	Metal making and treating process operatives
8118	Electroplaters
8119	Process operatives n.e.c.
8121	Paper and wood machine operatives
8125	Metal working machine operatives
8127	Printing machine assistants
8129	Plant and machine operatives n.e.c.
8131	Assemblers (electrical and electronic products)
8132	Assemblers (vehicles and metal goods)
8133	Routine inspectors and testers
8134	Weighers, graders and sorters
8135	Tyre, exhaust and windscreen fitters
8137	Sewing machinists
8139	Assemblers and routine operatives n.e.c.
9132	Industrial cleaning process occupations
9134	Packers, bottlers, canners and fillers
9139	Elementary process plant occupations n.e.c.

\*these SIC codes also feature in the food and drink sector

@ these SIC codes also feature in the finance and professional services sector