

Define Your Career Engineering and Manufacturing

November 2021

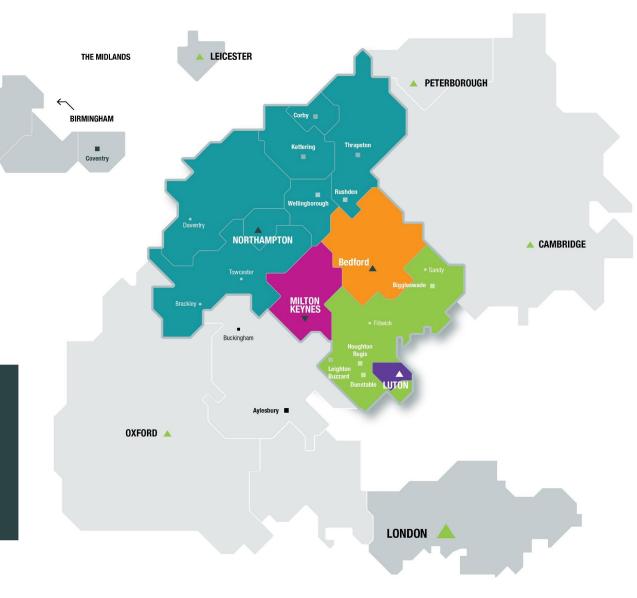


Local Enterprise Partnership

South East Midlands

- Bedfordshire
- Luton
- Milton Keynes
- Northamptonshire

870,000 people in employment 213,000 job postings (vacancies) per year



All information is taken from Labour Insight (Burning Glass Technologies) and the Office of National Statistics, Annual Population Survey

The Labour Market

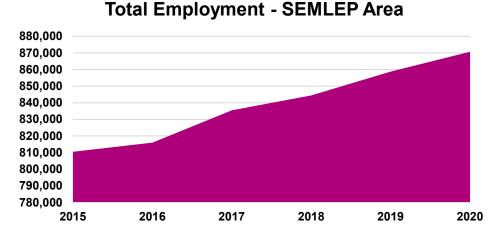




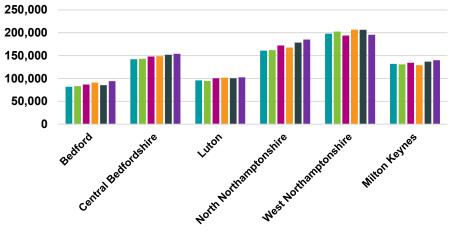
Growing business



Growing places



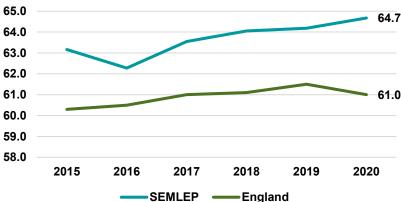
Employment - SEMLEP Area



■ 2015 ■ 2016 ■ 2017 ■ 2018 ■ 2019 ■ 2020

Source: ONS, Annual population survey, ONS/ONS Job Density

Employment rate - aged 16+ 66.0



Job Density (2019) Ratio of total jobs to population aged 16-64

| Milton Keynes | 1.21 |
|-----------------------|------|
| West Northamptonshire | 0.98 |
| SEMLEP | 0.91 |
| England | 0.88 |

Over 1 indicates more jobs than 16-64 population

High levels of employment

Job Posting Trends

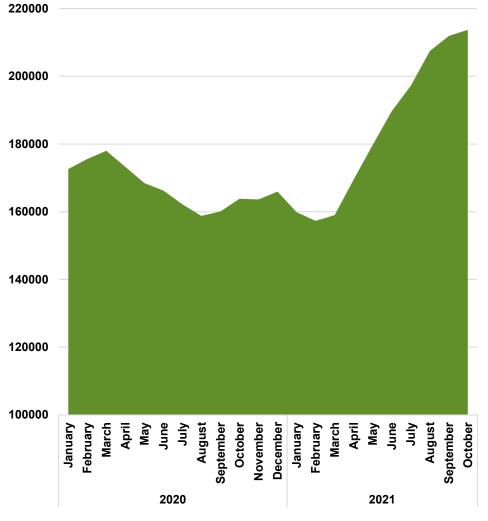


Growing business



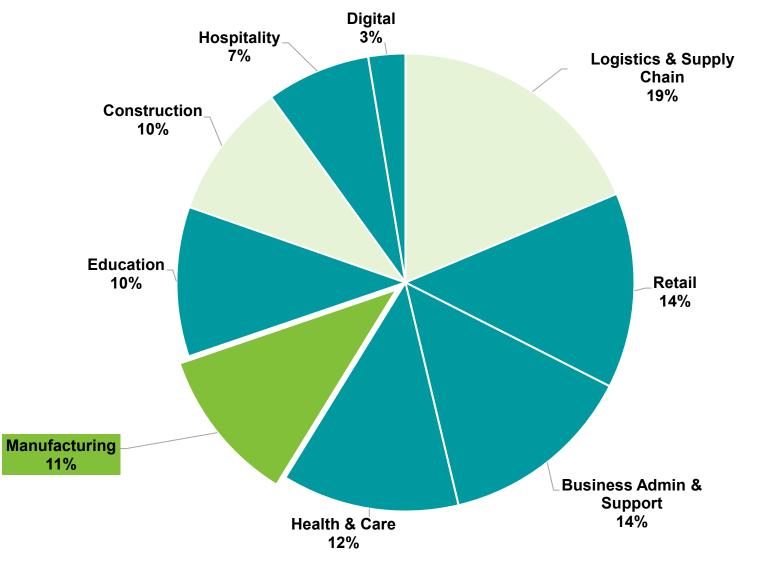


Job Postings - 12 Months Moving Average



- There has been a decline in line with the national picture for over two years until the beginning of 2020 where we started to see a consistent increase
- The impact of COVID-19 has stalled this growth but there is a large increase from Easter 2021
- Currently, job vacancies are 53% higher than the peak prior to COVID-19
- Some sectors have a large number of vacancies such as health, care, construction, education, digital, manufacturing and logistics
- SEMLEP Business Survey Most employers advertise on websites, social media and through word of mouth

Employment by Sector





Job Vacancies – Engineering and Manufacturing



Positive factors

- Hub of R&D
- Green economy and construction
- Growth of food production
- Innovation
 - Space
 - Agri-tech
 - Motorsport
- Increasing automation
- Ageing workforce



Job Vacancies – Engineering and Manufacturing

| Rank Oc | cupatic | ons |
|---------|---------|-----|
|---------|---------|-----|

- 1 Production Worker
- 2 Mechanical Engineer
- 3 Manufacturing Machine Operator
- 4 CNC Operator
- 5 Electrical Engineer
- 6 Quality Inspector / Technician
- 7 Production Supervisor
- 8 Industrial Engineer
- 9 Validation Engineer
- 10 Production Plant Manager
- 11 Engineering Manager
- 12 Product Development Engineer
- 13 Electrical / Electronic Engineering Technician
- 14 Electronics Engineer
- 15 Test Technician
- 16 Electronic / Electrical Assembler
- 17 CAD Designer / Draughtsperson/Draughtsman
- 18 Researcher / Research Associate
- 19 Manufacturing Engineer
- 20 Machinist
- 21 Chemist
- 22 Coating / Painting Worker
- 23 Manufacturing / Production Technician
- 24 Quality Control Analyst
- 25 Chemical / Process Engineer

Rank Occupations

- 26 Industrial / Mechanical Engineering Technician
- 27 CNC Programmer
- 28 Assembler / Fabricator
- 29 Quality Control Systems Managers
- 30 Operations and Maintenance Specialist
- 31 Health and Safety Engineer
- 32 Heating Engineer / General Engineer
- 33 Moulding / Casting Worker
- 34 Environmental Scientist / Specialist
- 35 Hardware Engineer
- 36 Mechatronics Engineer
- 37 Press / Press Brake Operator
- 38 Civil Engineering Technician
- 39 Tool Maker
- 40 Chemical Operator
- 41 Textile production worker
- 42 Printers and Print Process Worker
- 43 Food and Agricultural Scientist / Technologist
- 44 Environmental Engineer
- 45 Grinder / Sharpener
- 46 Research and Development Manager
- 47 Microbiologist
- 48 Robotics Engineer
- 49 Plant Operator
- 50 Laboratory Manager



Job Vacancies – Engineering and Manufacturing

Links to other occupational groups

Business Operations

- Sales and marketing
- Purchasing

Digital

- Software developers/programmers

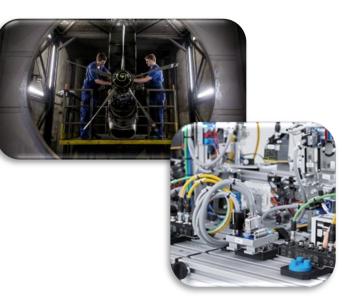


Job Vacancies – Employability Skills

Core Competencies

- 1 Communication Skills
- 2 Detail-Orientated
- 3 Teamwork / Collaboration
- 4 Problem Solving
- 5 Planning
- 6 Organisational Skills
- 7 Microsoft Excel
- 8 Computer Literacy
- 9 Microsoft Office
- 10 Research





Specialist Skills

- **1** Computer Numerical Control (CNC)
- 2 Quality Assurance and Control
- 3 Mechanical Engineering
- 4 Machining
- 5 Project Management
- 6 Budgeting
- 7 Quality Management
- 8 Packaging
- 9 Engineering Drawings
- 10 Scheduling

Digital Skills

- 1 Microsoft Excel
- 2 Microsoft Office
- 3 AutoCAD
- 4 SolidWorks
- 5 SAP
- 6 Microsoft Word
- 7 Enterprise Resource Planning (ERP)
- 8 Microsoft Powerpoint Computer Aided Draughting/Design
- 9 (CAD)
- 10 Software Development



Great places to explore the opportunities

- This is Engineering An introduction to the sector and the opportunities it offers <u>https://www.thisisengineering.org.uk/</u>
- Prospects Engineering and Manufacturing Information on jobs, work experience and pathways <u>https://www.prospects.ac.uk/jobs-and-work-</u> <u>experience/job-sectors/engineering-and-manufacturing</u>
- Youth Employment Careers and pathways into engineering https://www.youthemployment.org.uk/careers-hub-sector/engineering-andmanufacturing/
- icould video and careers information for roles in engineering https://icould.com/explore/categories/subject/engineering
- Motorsport Industry Association education pathways into a career in motorsport <u>https://the-mia.com/page/Education</u>
- National Careers Service <u>https://nationalcareers.service.gov.uk/explore-</u> <u>careers</u>





Growing business



Growing places

More information at

www.semlep.com/school-labour-market-information/

#DefineYourCareer