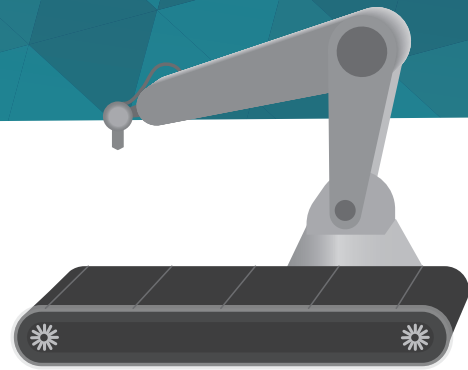


ADVANCED MANUFACTURING

What is Advanced Manufacturing?



Do you want to work in a constantly changing, high tech industry? Do you want a job where you get to see raw materials transformed into products such as car parts, tools, clothing, food and drink, furniture? If yes, then manufacturing could be for you.

Manufacturing is about making things. Most manufacturing is automated so that goods can be produced in large volumes to meet demand. Advanced manufacturing involves the use of technology to improve products and/or the process of making them.

Key Information

Over 14,500 people work in Advanced Manufacturing in the Tees Valley.

There were over 500 Advanced Manufacturing vacancies and 2,100 Manufacturing vacancies advertised online in the Tees Valley in 2019.

Only 24% of the current workforce is female, there is a need to recruit more women to the sector.

Over the next few years there is predicted to be over 3,000 manufacturing jobs available from those who will leave and retire.

Careers range from manual labour to highly skilled jobs and management roles. There are shortages in advanced manufacturing positions, especially for skilled engineers, and skilled workers such as machine operatives and welders.

Useful Subjects

- Science
- Mathematics
- Technology and Design
- Engineering

Skills and Qualities

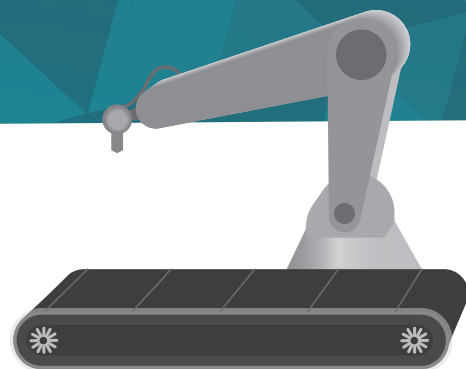
- Communication
- Problem solving
- Organising and Planning
- Team Work

Top 5 specialised skills most requested in Advanced Manufacturing job adverts

1. Budgeting
2. Project Management
3. Scheduling
4. Quality Assurance and Control
5. Welding

The Covid-19 pandemic has resulted in increased digitalisation, within both businesses and households, with more home working and learning than ever before. This will create new opportunities for ways of working across all sectors.

ADVANCED MANUFACTURING



Average annual salaries in the Tees Valley

Design and development engineers	£40,700
Production Managers and Directors in Manufacturing	£39,400
Welding trades	£23,400
Routine Inspectors and Testers	£22,600
Metal working machine operators	£21,200

Routes into Advanced Manufacturing

Apprenticeships are a well-respected route into Advanced Manufacturing with many Advanced Manufacturing employers offering well established apprenticeship programmes. Many employers will support work based and academic development through on the job and off the job training, including paying for higher education qualifications. For more information on apprenticeships please visit www.apprenticeships.gov.uk

Further Education in a college or sixth form is also a well-established route into Advanced Manufacturing where qualifications in STEM subjects (Science, Technology, Engineering and Maths) will give you an advantage. To search for a course please visit www.ucas.com/further-education

Higher education is also a popular route into Advanced Manufacturing with courses in subjects such as electrical engineering, mechanical engineering and product design. To find out more please visit www.ucas.com.

More Information:

Semta

<http://www.semta.org.uk>

Gradcracker

www.gradcracker.com