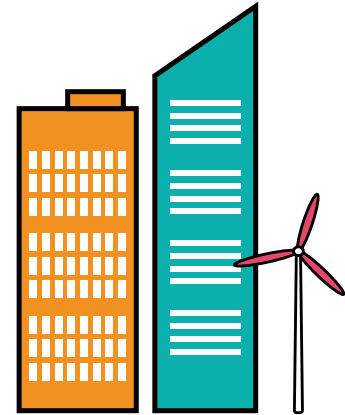
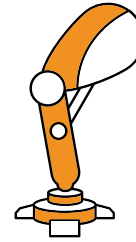


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Get ready  
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ideas  
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# Jobs of the Future



# What's changing in the world of work?



×

Companies are increasing their **global interaction**, meaning that **speaking a second language** will come in quite handy.

×

With advances in technology it's easy to become worried that jobs are declining – it's actually the case that **technology is creating more jobs** for society than taking away.

×

Low-value tasks and manual processes will be increasingly automated; however, this will free up time for workers to **focus on high-value tasks**.

×

**New work environments are appearing.** Working remotely from home is becoming really popular.



People will need to be **flexible and adaptable**, rather than focusing on job security and securing long-term employment.



With our aging population, we're finding an **increase in skills gaps**.



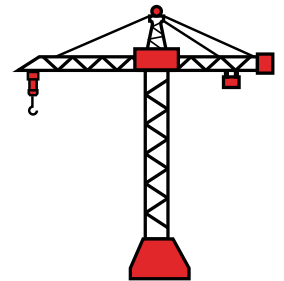
A lot of work is still very much human and **what makes us human will make us employable** in the future.



Employees need to take more responsibility for **keeping their skills relevant and up to date**, in order to keep up with advancements in technology.

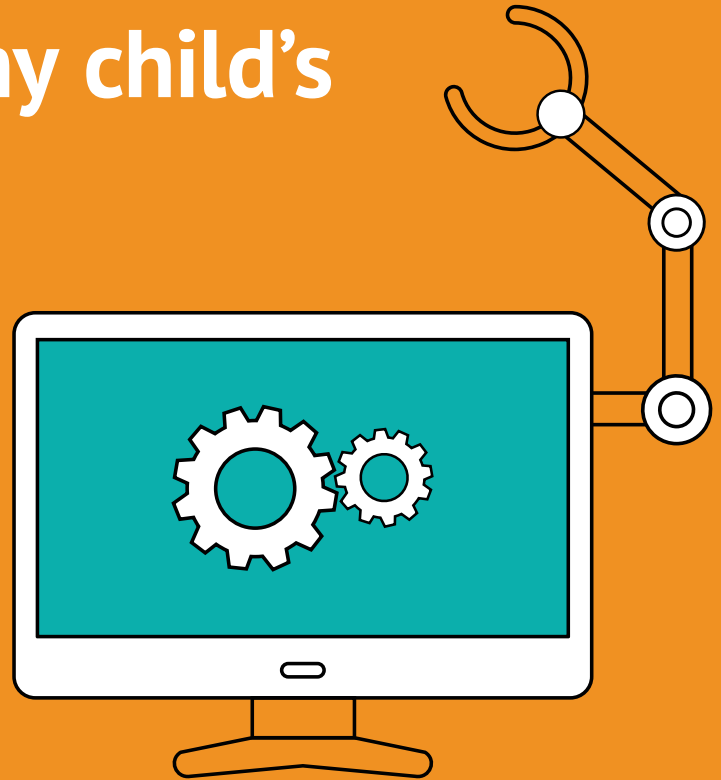


Technology has had a significant impact on things like recruiting – but it will never be fully automated – **you still need that 'gut' feeling**.



# What is automation and how will it affect my child's career choices?

Automation is about implementing a system or automatic equipment to complete repetitive, easily replicated tasks without the need for humans. **While it's true that, in the future, some job roles will be replaced by machines, it's also true that new and exciting jobs will be revealed.**



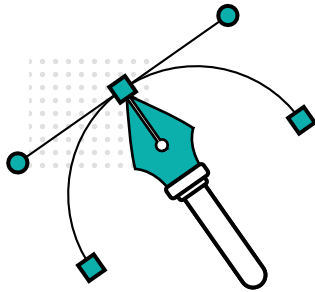
# Looking to the future

It's time to bust some myths around automation, understand the changing landscape of different career sectors and get to grips with the skills needed for the various opportunities on the horizon.

# Creative

Find out more about the creative sector in our region on FutureGoals  
[futuregoals.co.uk/creative](https://futuregoals.co.uk/creative)

## Did you know...



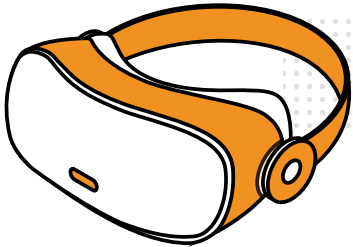
Creative skills are among the most difficult to automate. Jobs like artists and musicians are among those with the lowest risk of being replaced by machines.



creative

# Creative

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Augmented and virtual reality offer an entirely new medium for creators to work with in fields like filmmaking and gaming (e.g. Pokémon Go).

Channel 4 recently announced that Leeds City Region would be the location for a new national headquarters.



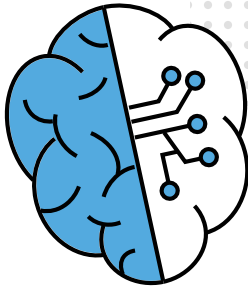
Creative

# Creative

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Advertising and marketing currently have the most jobs – around 19,000.

Artificial Intelligence (AI) is being used to personalise content on digital platforms.



Creative



# Creative

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Leeds City Region has a flourishing digital creative sector, with 20 of the fastest-growing tech companies in the North of England.

×

**Useful to know:** Expertise in digital technologies is an increasingly important requirement for most creative occupations.

×

**Changes to... Journalism** – Artificial Intelligence is now being used to generate repetitive text in articles but this is freeing up reporters' time and allowing them to be even more creative with their writing.

# Digital

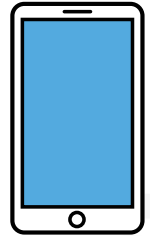
Find out more about the digital sector in our region on FutureGoals

[futuregoals.co.uk/digital](http://futuregoals.co.uk/digital)

## Did you know...

Programmers and developers are where there are a growing number of jobs. For example, web development, cyber security and gaming.

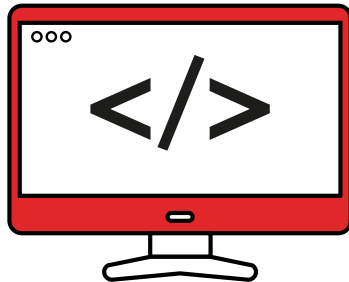
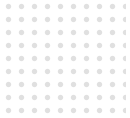
Future algorithms will take on more coding tasks than humans, so you will need problem-solving, social and business skills as well as digital knowledge!



# Digital

Find out more about the digital sector in our region on FutureGoals

[futuregoals.co.uk/digital](https://futuregoals.co.uk/digital)



**As digital platforms and tools become more important across all industries there is a growing demand for digital experts with specialist skills, such as programmers.**

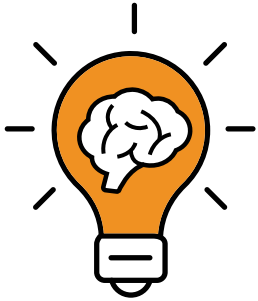


Digital

# Digital

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[futuregoals.co.uk/digital](https://futuregoals.co.uk/digital)



**People with problem-solving, social and business skills as well as digital knowledge will have the best career opportunities.**

There were over 14,000 vacancies in the Leeds Region for digital professional roles in the last year alone.



Digital

# Digital

Find out more about the digital sector in our region on FutureGoals  
[futuregoals.co.uk/digital](https://futuregoals.co.uk/digital)

×

**Changes to... Coding** – In the future, algorithms may be able to produce code more effectively than humans BUT those with problem-solving skills and digital knowledge will still be in high demand.

×

**Useful to know:** Digital skills can quickly become out of date, so it's important that workers constantly update their skills and knowledge.

Find out about the region's top 25 tech companies here:

[investleedscityregion.com/all-news-and-blogs/meet-the-25-fastest-growing-tech-businesses-in-the-leeds-city-region](https://investleedscityregion.com/all-news-and-blogs/meet-the-25-fastest-growing-tech-businesses-in-the-leeds-city-region)

## Engineering & Manufacturing

Find out more about the engineering and manufacturing sector in our region on FutureGoals  
[futuregoals.co.uk/manufacturing-and-engineering](https://futuregoals.co.uk/manufacturing-and-engineering)

# Did you know...

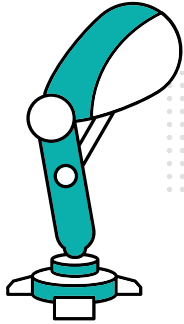
Leeds City Region has 7,300 manufacturing and engineering businesses, representing the largest manufacturing base in the UK and generating £7 billion a year.

There will be fewer lower-skilled manual workers, but higher skilled managers, engineers and technicians to develop new products and processes.



# Engineering & Manufacturing

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**Industrial robots have long been an important part of car manufacturing processes.**

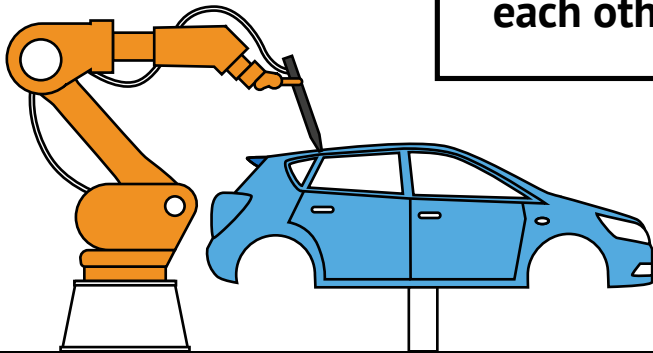
**Some of the largest engineering businesses in the UK are based in Leeds City Region, including Northern Rail, Nestle and Unilever.**



# Engineering & Manufacturing

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Car manufacturing is moving to another level with the 'fourth industrial revolution', or Industry 4.0, and the emergence of 'smart factories', where robots talk to each other over secure Wi-Fi.





# Engineering & Manufacturing

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×

**Changes to... Product Assembly** – Manufacturing will need fewer lower-skilled manual workers such as assemblers and process operatives, BUT it is worth noting that the industry will require more higher-skilled employees like engineers and technicians.

×

**Useful to know:** Digital skills will be increasingly important in manufacturing – for example, cybersecurity skills will be needed to protect automated production systems.

# Construction

Find out more about the construction sector in our region on FutureGoals

[futuregoals.co.uk/construction](https://futuregoals.co.uk/construction)

## Did you know...

£5 billion is planned to be spent on the new High-Speed Rail Line (HS2) which could generate up to 28,000 construction jobs.

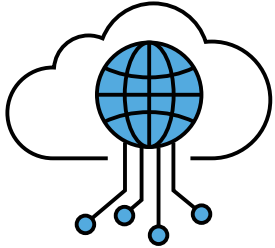
New technologies are changing the way that construction processes are carried out. In general, workers will need a higher level of skills, particularly in problem solving.



# Construction

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It is projected that there will be a recruitment need of more than 44,000 for the construction sector over the next decade as the sector grows and people retire.

**New digital technologies, such as building information modelling (BIM), automated and robotic equipment and cloud-based collaboration tools are becoming more widespread.**



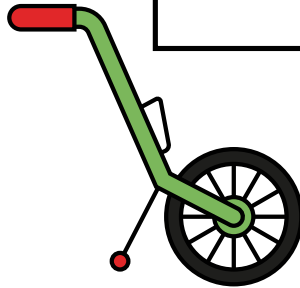
# Construction

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[futuregoals.co.uk/construction](https://futuregoals.co.uk/construction)

It's likely that many routine manual roles in construction will be automated over the coming decades, although the need for workers in unstructured environments will remain.

Women working in construction are on the increase. 37% of new entrants into the industry that came from higher education are women.



# Construction

Find out more about the construction sector in our region on FutureGoals

[futuregoals.co.uk/construction](http://futuregoals.co.uk/construction)

×

**Changes to... Building Construction** – New technologies are changing the way that construction processes are carried out. Off-site construction, using a 3D printer, is becoming increasingly popular, BUT technology like this still requires the problem-solving skills of the human brain and the ability to fix it if anything goes wrong.

×

**Useful to know:** Due to the increased use of mechanical technologies, workers will need a higher level of skills than previously.

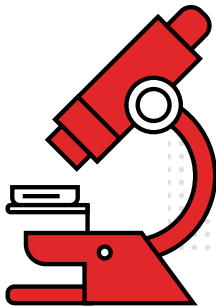
To find out how this sector is adapting -

[goconstruct.org/why-choose-construction/whats-happening-in-construction/how-is-construction-adapting-for-the-future](http://goconstruct.org/why-choose-construction/whats-happening-in-construction/how-is-construction-adapting-for-the-future)

# Health & Social Care

Find out more about the health & social care sector in our region on FutureGoals  
[futuregoals.co.uk/health-and-social-care](https://futuregoals.co.uk/health-and-social-care)

## Did you know...



Robots are being used in surgery, to measure data and fight diseases. However, most jobs in health and care require human interaction skills making them difficult to automate.



Four out of five NHS national offices are based in Leeds, including NHS England.

# Health & Social Care

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[futuregoals.co.uk/health-and-social-care](https://futuregoals.co.uk/health-and-social-care)



**Technology is having a big impact on this sector.**

Leeds City Region is the UK's leading centre for healthcare and innovation.



# Health & Social Care

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**Changes to... Health Care – Artificial Intelligence is being used to carry out patient diagnosis by using data from millions of patient records and journals BUT most occupations within this sector require human interaction, such as doctors and nurses.**

ODPs are a brilliant role within the NHS but very few people know what the role involves – this video will tell you lots more!

[vimeo.com/282324560](https://vimeo.com/282324560)

×

**Useful to know: Having knowledge of technology is useful as robots are being used in surgery and to assist care workers when moving patients.**



## Financial & Professional Services

Find out more about the financial and professional sector in our region on FutureGoals

[futuregoals.co.uk/financial-and-professional-services](https://futuregoals.co.uk/financial-and-professional-services)

# Did you know...

Leeds City Region has Britain's fastest growing legal sector and is also home to the 'Big Four' UK accountancy firms PWC, EY, KMPG and Deloitte.

Some legal sector intelligent search systems can now outperform junior lawyers and paralegals; however, in finance, it's much more difficult to automate audits/risk management.



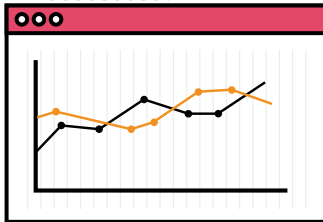
# Financial & Professional Services

Find out more about the financial and professional sector in our region on FutureGoals

[futuregoals.co.uk/financial-and-professional-services](https://futuregoals.co.uk/financial-and-professional-services)

Over 30 national and international banks are based in Leeds City Region.

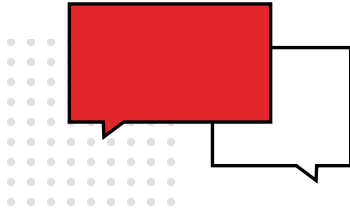
In the financial sector, it is expected that general accounting operations can be automated whereas algorithms can lead to faster and more efficient financial analysis and assessments.



## Financial & Professional Services

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[futuregoals.co.uk/financial-and-professional-services](https://futuregoals.co.uk/financial-and-professional-services)



**Roles like project managers and management consultants will be difficult to automate because they require creativity, problem-solving and interpersonal skills.**

Leeds City Region has established itself as the country's second-biggest law hub behind London, with the sector worth around £300 million pounds a year.



## Financial & Professional Services

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×

**Changes to... Law** – In the legal sector, intelligent search systems are able to trawl through documents faster than any junior lawyer, BUT the ability to present to a room and be persuasive in a point is a human attribute that isn't going to go out of fashion in a hurry.

×

**Useful to know:** Routine office tasks are being automated, but jobs like project managers need skills like problem solving and creativity which are difficult to automate.

# Useful links

For more information about each sector and the emerging job roles, visit:



[futuregoals.co.uk/careerstarters](https://futuregoals.co.uk/careerstarters)



For specific information about the Digital Sector, visit:



[the-lep.com/skills/thinking-of-career-change](https://the-lep.com/skills/thinking-of-career-change)



To take careers quizzes and gain more knowledge about current opportunities, visit:



[tomorrowsengineers.org.uk](https://tomorrowsengineers.org.uk)



[careerexplorer.com](https://careerexplorer.com)



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