Knowledge is Power:

STEM

STEM stands for Science, Technology, Engineering and Maths. Careers in STEM can cover a huge range of professions and skills. For example, a STEM job might see you working as a computer programmer/software developer, researcher, engineer, accountant or in other exciting and varied roles. **Let's take a closer look at STEM!**

Did you know?

- A shortage in STEM skills is costing UK businesses £1.5 million per year
- STEM jobs have grown by 50% across West Yorkshire in recent years, with 23,000 extra jobs
- Jobs in STEM make up 10% of jobs postings in our region
- Female STEM graduates (mainly engineers) are more likely to enter full-time work (61% vs 59%) and less likely to enter part-time work (8% vs 12%) than all female graduates

How can STEM change the world?

The STEM sector is the driving force behind new technology, new ways of working and new knowledge about the world around us. Without STEM companies, we would have no internet, no smartphones, no aeroplanes, the list goes on.

You could be suited to a career in STEM if you:

- Like to think of solutions
- Enjoy solving problems
- Work well as part of a team
- Like thinking outside the box

Explore your skills: **Search 'FutureGoals Next Steps Toolkit'**

Useful subjects to have:

- **English**
- **Science-related subjects**
- **Engineering**
- **Design & Technology**
- **Maths**

How can you get a STEM job?

Finish your education (this needs to be at least your GCSEs)
Further education (such as A Levels, a T Level or a BTEC Diploma)
OR
Apply for an apprenticeship
YOU COULD ALSO
Attend university to study a relevant subject
Get your qualification
Search for employment opportunities

Talk to the National Careers Service:
nationalcareers.service.gov.uk/contact-us
Or your school/college Careers Adviser:

Top vacancies:

Software developer → **Average salary: £50,000**

IT business analyst → **Average salary: £38,000**

Civil Engineer → **Average salary: £35,000**
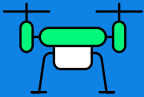
What does the future look like for STEM?

Automated & Robot System Repair
A human automated system technician or robot repair person can replace parts, fix lines of code, and test machines before it goes back online.

Green Power Creator
The future will need people to find new green resources—and engineers to develop, test, deploy, and repair these systems.

Drone Technician
The maintenance of drones (and possibly some flight control) will still be done by humans, while engineers will continue to modify and update the flying bots.

Take it further: Visit

🔍 **futuregoalsvwx.co.uk/sectors**

to learn about Construction, Manufacturing & Engineering and HealthTech careers and try our activities

FUTUREGOALS

West Yorkshire Combined Authority

Tracy Brabin Mayor of West Yorkshire