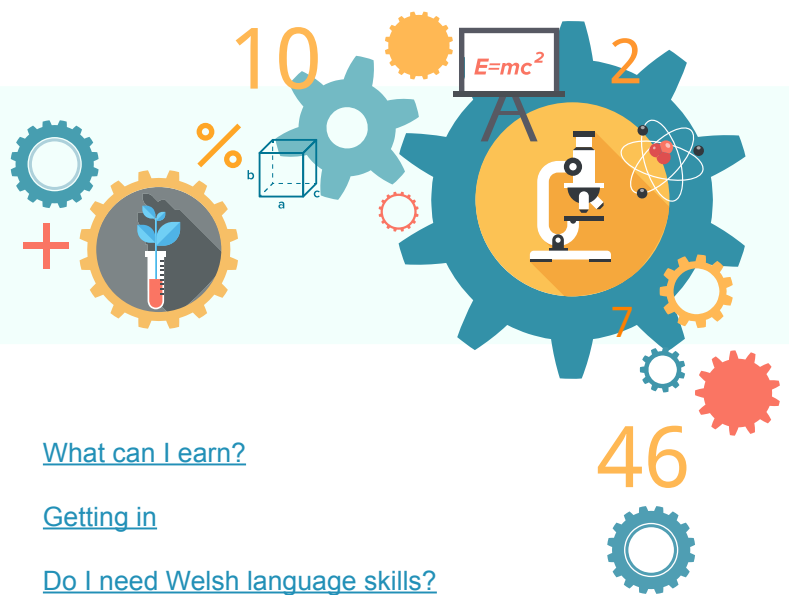


Spotlight on

STEM

Science, Technology, Engineering and Maths



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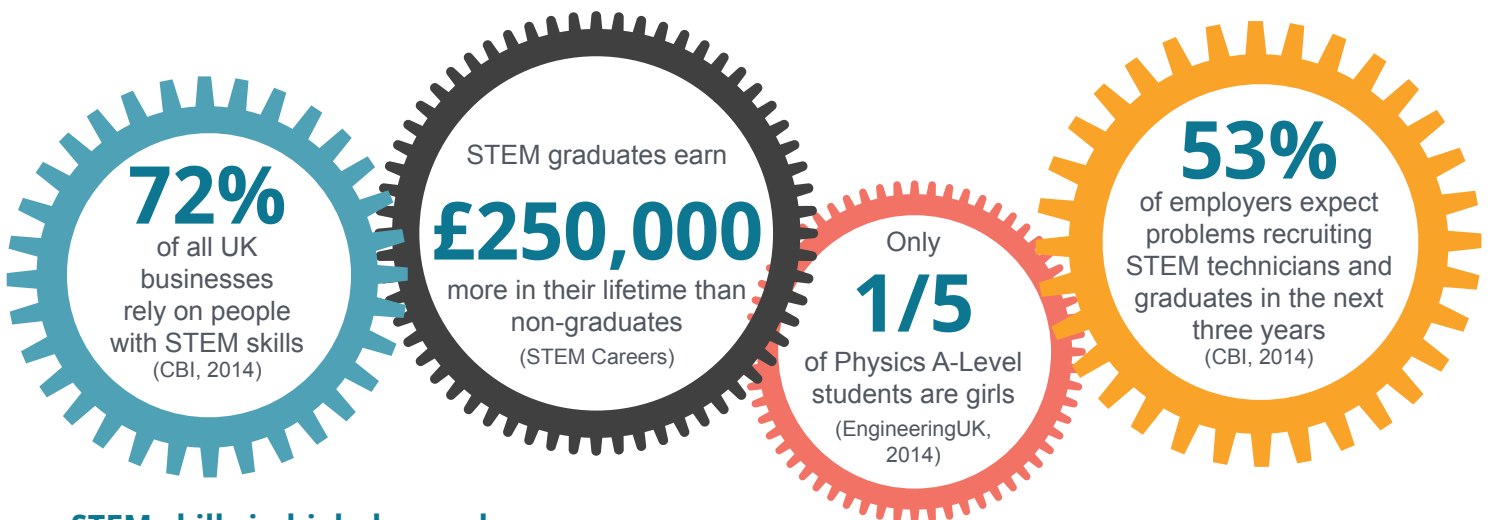
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More opportunities and better prospects

Can you see yourself designing a wind turbine or building the next Airbus; developing new drugs or a high performance textile; or maybe, filming the next Doctor Who?

There are lots of exciting job opportunities for people with STEM skills (that's Science, Technology, Engineering and Maths) and not just at degree level.

People with STEM skills enjoy better career prospects and can earn more!



STEM skills in high demand

Wales needs skilled technicians as well as STEM graduates. It's not only STEM employers that want STEM skills. All employers look for the skills that studying a STEM subject can give you; skills like problem solving and numeracy.

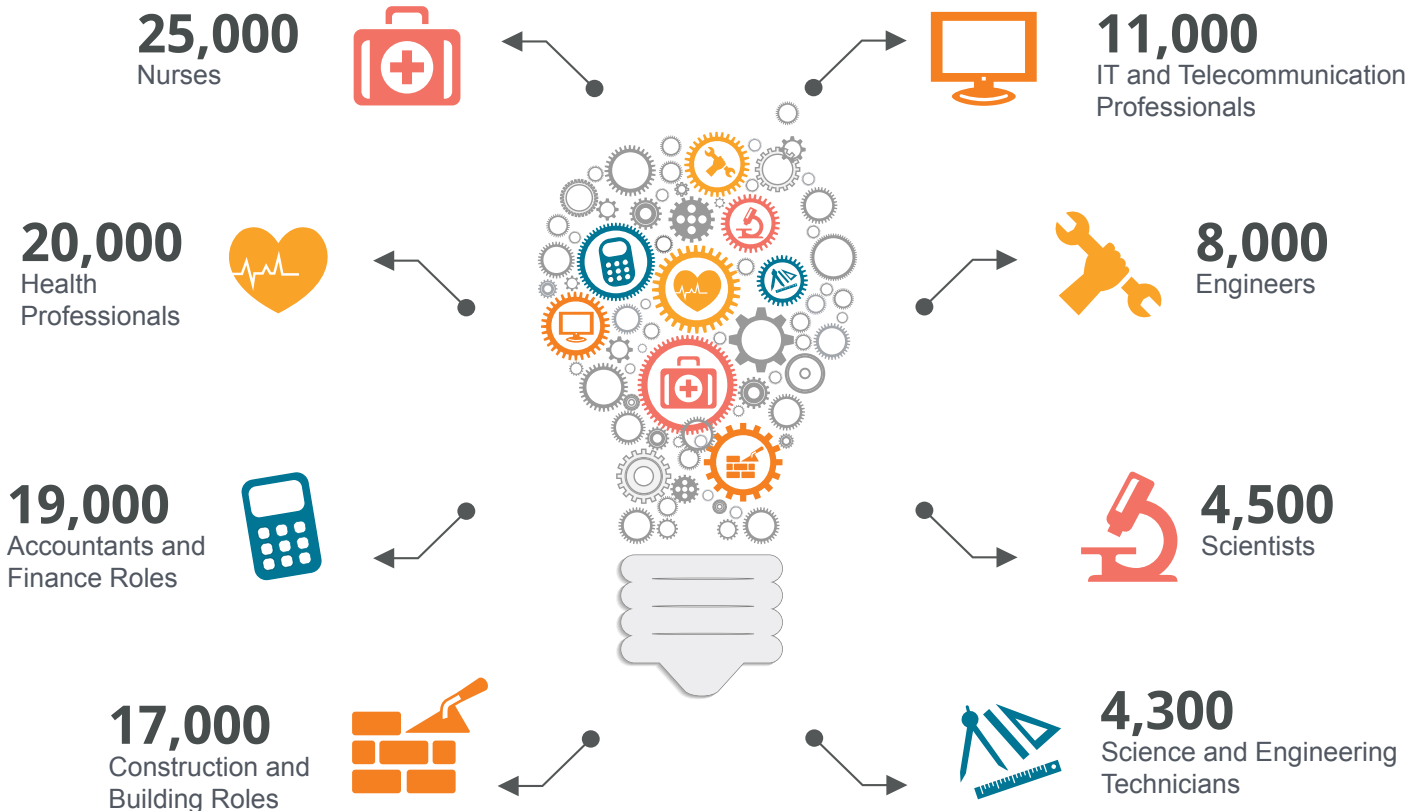


Wales needs more..

Geneticists, Therapists, Chemists,
Engineers, **Nurses**, Skilled Technicians,
Textile Technologists, Marine Biologists, Doctors,
Accountants, **Skilled Construction Trades**,
Designers, STEM Teachers, Environmental Scientists,
Computer programmers.

Why study a STEM subject or course?

1 in 5 new jobs in the UK by 2022, will be STEM jobs.

By 2022 Wales needs..

Source: Working futures 2012-2022

Where can STEM take me?

Some of the career areas STEM skills could take you:

[Aerospace Industry](#)

[Agriculture](#)

[Animals](#)

[Biological Sciences](#)

[Chemistry Careers](#)

[Computers](#)

[Construction](#)

[Dental Careers](#)

[Engineering](#)

[Environment](#)

[Film, TV and Radio](#)

[Finance](#)

[Food and Drink](#)

[Health and Medicine](#)

[Mechanical Engineering](#)

[Nursing and Midwifery](#)

[Oil and Gas Production](#)

[Physics Careers](#)

[Plastics and Polymers](#)

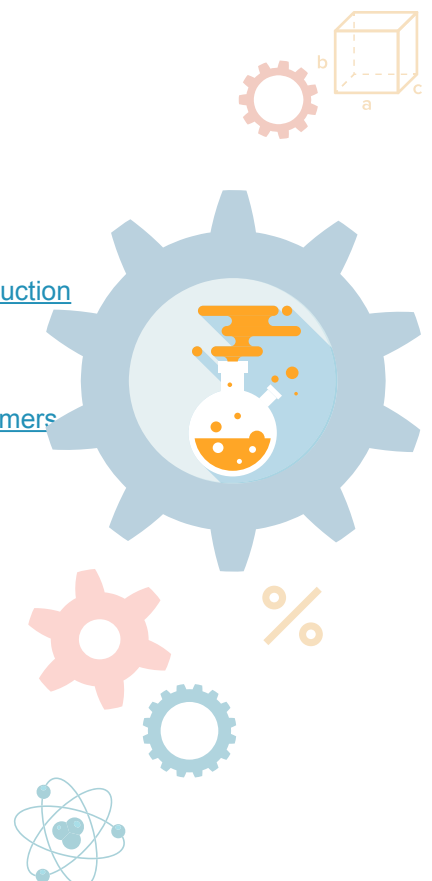
[Science Careers](#)

[Teaching](#)

[Textile Industry](#)

[Vehicles](#)

[Water Industry](#)



Meet the employers

These are some of the STEM employers in Wales:

RWE npower plc

Energy and Renewables Wind energy sites, North Wales.

BTG Protherics UK Ltd

Healthcare products, Llandysul, Ceredigion.

Valero

Oil Refinery, Pembroke.

Tinopolis Cymru

Media Production, Llanelli.



Airbus

Aircraft Manufacture, Broughton, Flintshire.

Admiral Group plc

Insurance, Swansea, Cardiff, Newport.

Biomet UK Ltd

Surgical Implant and Instrument Manufacture, Bridgend.

SPTS Technologies Ltd

Electronics manufacturer, Newport.

What can I earn?

Salaries can vary depending on your experience, the employer and where you live. Higher salaries can be awarded for more senior positions.

Job Salary range dependent on experience (£)		£0	£50,000	£101,000
		▼	▼	▼
Animal Technologist	£15,000 - £28,000			
Vehicle Mechanic	£15,000 - £27,000			
Broadcasting Sound Operative	£16,000 - £34,000			
Graphic Designer	£18,000 - £35,000			
Nursing	£18,000 - £47,000			
Web Designer	£18,000 - £30,000			
Wind Farm Technician	£19,000 - £33,000			
Environmental Conservation Officer	£21,000 - £34,000			
Hydrogeologist	£22,000 - £46,000			
Marine Biologist	£22,000 - £47,000			
Nuclear Engineer	£22,000 - £42,000			
Qualified Teacher	£22,000 - £37,000			
Quantity Surveyor	£22,000 - £46,000			



The top ten highest graduate starting salaries in STEM subjects



The average starting salary for graduates is **£21,702**

Getting in

Wales needs high level STEM skills. Get as qualified as you can. Demand for graduates from STEM related degrees will grow faster than for other subjects, particularly for:

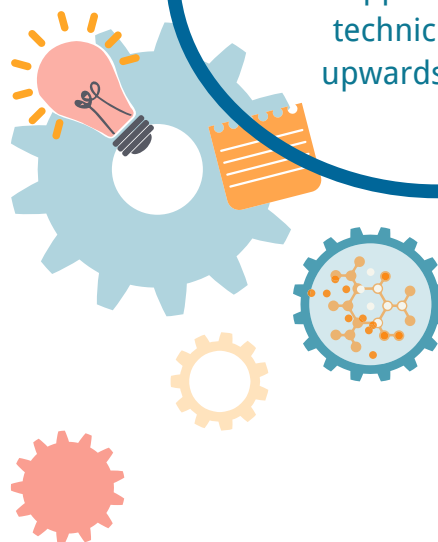
- Medicine, regenerative medicine and related occupations
- Biological and Chemical Sciences
- Physical Sciences
- Environmental Sciences
- Computing and Mathematical Sciences
- Advanced Materials and Manufacturing
- Engineering, Technology and Architecture
- Marine Sciences
- Digital and Media technologies
- STEM related teaching

Check how to get into a specific STEM job

[Try our Career Search](#)

[Find a HE course](#)

'People with STEM skills are in demand at all levels, from apprentice and technician level, upwards' CBI, 2014



'More than 1 in 4 STEM employers report difficulties in meeting their need for technicians' CBI, 2014

University is not the only option!

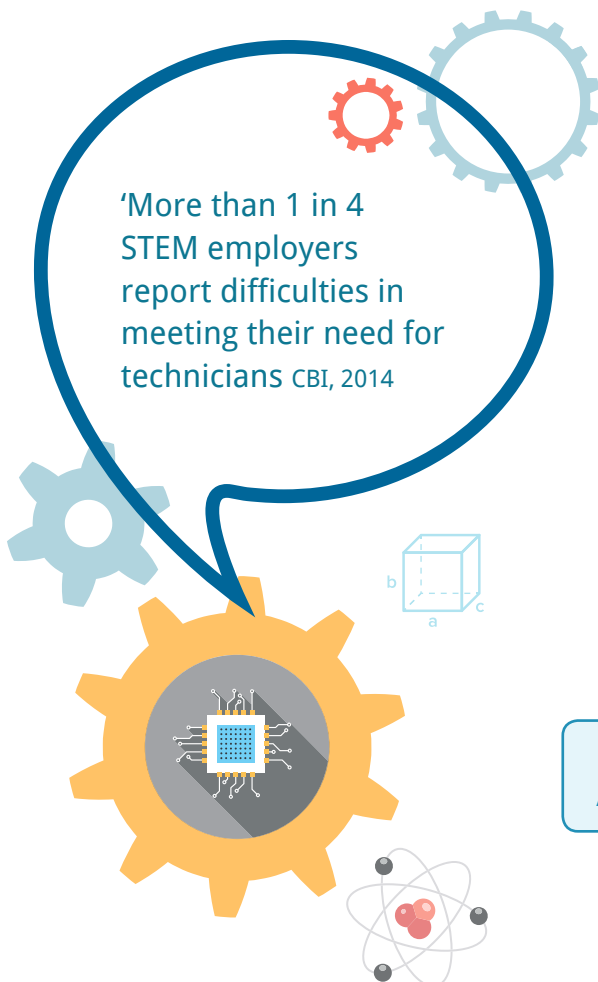
Wales needs STEM skills at all levels. There are a growing number of STEM related apprenticeship routes available, at different levels in:

- Agriculture, Horticulture and Animal Care
- Engineering
- Manufacturing Technologies
- Information and Communications Technology
- Accountancy and Financial Services
- Media Technology
- Health, Public Services and Care
- Building and Construction

Depending on the level of the apprenticeship you could work towards qualifications up to degree level, earn a wage and avoid student fees.

[Search for Apprenticeships](#)

[Research employer apprenticeship Programmes through Sector Skills Councils](#)



Do I need Welsh Language skills?

If you work in Wales, being able to speak and write in both Welsh and English can give you an advantage in the workplace, particularly in the service industries and jobs that involve communicating with people.

In the STEM industries demand for bilingual skills varies ...



High demand for Welsh skills

- Media
- Creative Industries
- Health and Social Care
- Finance
- STEM related teaching



Low demand for Welsh skills

- Advanced Materials and Manufacturing
- Life Sciences
- Engineering
- High tech and global industries

What about the future?

STEM jobs are expected to be among the fastest growing in Wales.

Fastest growing STEM jobs in Wales, shown in percentage of growth:

