S2 Choices

G Mullin – PT World of Work

1895

1920

Once upon a time…

This is no longer true!!

Some facts:

- A University degree doesn't guarantee you a good job!
- The 'job for life' is very rare – It is more likely you will have a lot of jobs throughout your lives.
- 1 in 3 graduates claiming jobseeker's allowance
- A quarter of graduates haven't had a single interview.

Source: totaljobs.com

Presently…

Top Myths

- University should automatically be your first choice destination after school - MYTH!

- College / Apprenticeship opportunities are for people who don't get the grades to get into university – MYTH!

- "Academic" pupils should study 3 sciences (Biology, Physics, Chemistry) – MYTH!

- Boys' subjects / Girls' subjects – MYTH!

UG **PHYSICS WITH ASTROPHYSICS** BSc/MSci

EUROPEAN QUALIFICATIONS

Typical entry requirements for European qualifications: European requirements: Arts, Science, Engineering, Accountancy, Social Sciences [pdf]

— Accepted Science subjects

Accepted Science subjects:

- Biology
- Chemistry
- Computing Science
- Engineering Science
- Environmental Science
- Geography
- Human Biology
- Lifeskills Mathematics
- Mathematics
- Mathematics of Mechanics
- Physics
- Statistics

Jobs are changing

Who's granny was a web designer?

[Video – changing nature of work](#)
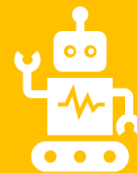
[Will a robot take your job?](#)

Changing nature of work

- Lots of jobs today that did not exist 10 - 20 years ago

  Web designer

  Network Engineer

  Digital Forensic Analyst

  Ethical Hacker

  Mobile App Developer

  Social Media Manager

  Drone Operator

  AI / Data Science

  Machine Learning

Why should we believe there won't be other new jobs in 10-20 year time??

My World of Work

My world of work

Mykidscareer.com

The tech sector is forecast to be one of the **fastest growing sectors in Scotland** to 2029, in terms of GVA (26%) – growing 1.5 times faster than the economy overall (18%)[2].

2 Tech is the second fastest growing sector sitting behind child day-care activities which is expected to see significant growth due to the expansion of free provision, albeit from a comparatively low base.

Forecast percentage GVA growth 2019 - 29

Child day-care activities

Digital technology

Creative industries

Financial and business

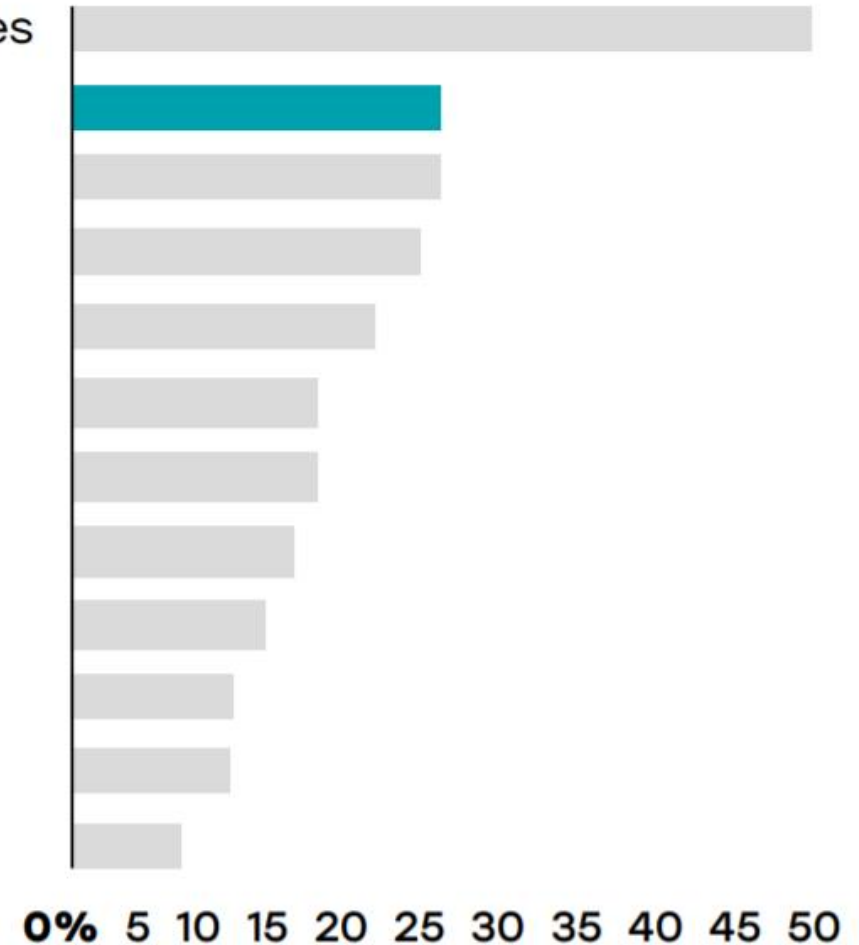Life sciences

Engineering

Health and social care

Tourism

Construction

Energy

Food and drink

Chemical sciences

0% 5 10 15 20 25 30 35 40 45 50

Introduction

It continues to be a critical time for the digital economy as technology further transforms the way in which we live and work.

This digital revolution is impacting all sectors across Scotland as increasing types of businesses are harnessing the benefits of technology to drive innovation and increase competitiveness. For Scotland this means that the digital technology (tech) sector is growing rapidly and is also a key contributor to economic growth and global competitiveness across every sector in Scotland.

In 2018 the tech sector contributed £4.9bn to the Scottish economy and around 100,000 people were employed as tech professionals across all sectors. Tech in Scotland is not only forecast to continue to grow but is also identified as one of the fastest growing sectors in Scotland. As this digital revolution continues to pick up pace it is creating an unprecedented demand for skills with employers across all sectors.

Salaries for Tech Jobs

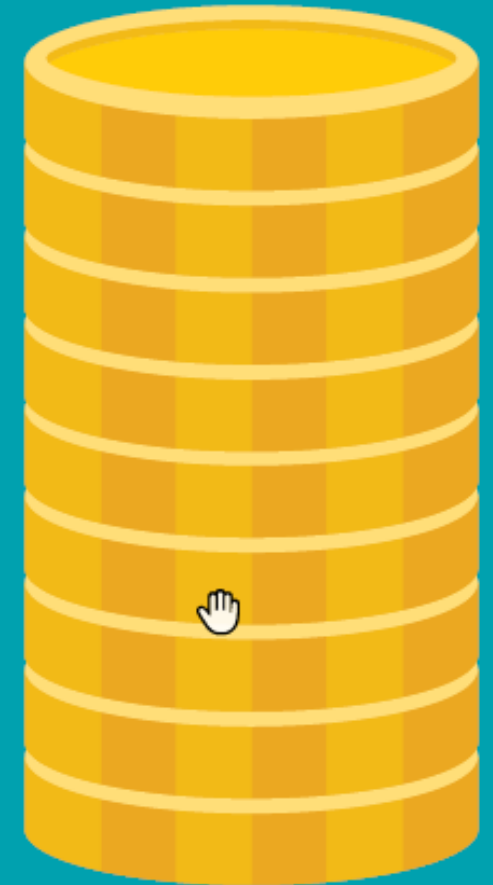The average salary for tech jobs is around £36,900 - 26% higher than the Scottish average of £29,200.

Tech salaries are also growing at a faster rate (15%), than overall salaries across Scotland (11%) (2013-2018).

£29,200

£36,900

Scottish average

Digital technologies

Forecast Growth in Employment

Demand for tech recruits continues to grow rapidly. It is estimated that Scotland needs around **13,000** new people to work in tech every year. A significant proportion of these jobs will be due to replacement demand and people leaving the workforce.

This is a further increase on the previous demand forecasts from just two years ago and represents a significant opportunity for both young people and other new entrants across a wide range of job roles.

13,000
Technology job opportunities every year

Building on the strength of Modern Apprenticeships, and tech employer's appetite for degree level qualifications, Scottish Apprenticeships now also includes **Graduate Apprenticeships** (GAs) which are offered in the workplace.

Tech GAs have grown rapidly from their initial pilot of five starts in 2017/18 to almost 300 starts in 2018/19.

Tech GAs are currently offered in software, IT management for business, cyber and data science.

Tech apprenticeships are viewed positively by employers and there is an increasing appetite for tech apprentices across sectors. Around a third of employers currently use Foundation, Modern or Graduate Apprenticeships.

Apprenticeships are viewed positively

Current Workforce Skills Issues

Recruiting a workforce with the right technical skills or experience is the biggest challenge for employers currently. 75% reported this as being an issue with 28% stating it as a significant one.

A significant proportion (58%) also reported skills issues in terms of the necessary employability or work readiness skills, which is an issue increasingly affecting other parts of the economy.

Almost half (48%) of business respondents reported currently having digital technologies skills shortages or gaps in their workforce. Of this group, 64% had issues in development and implementation, with delivery and operation (29%) and relationships and engagement (27%) also notable.

75%

find it difficult to recruit the right technical skills and experience
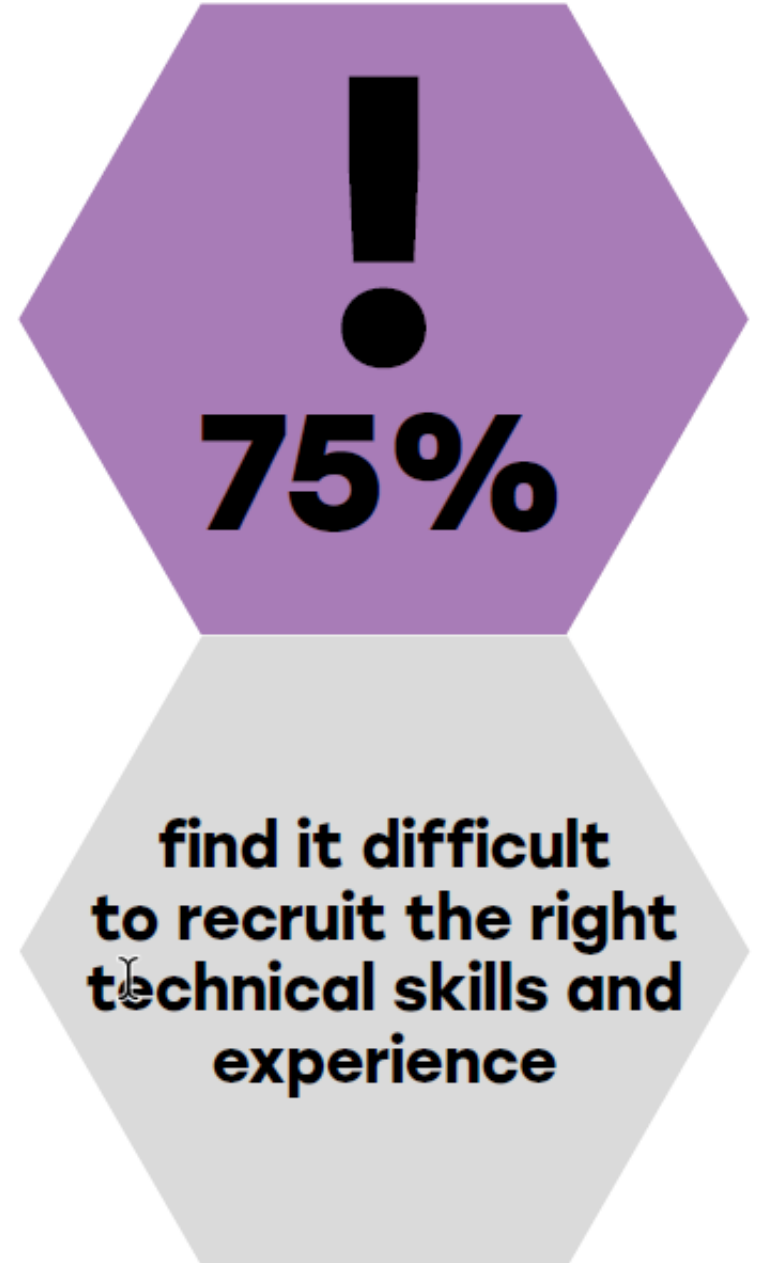
Start thinking about your working life

My world of work

Broad range of subjects

Consider matching your aspirations with in-demand areas!

What are the job prospects with a qualification in that area?

Will you get the skills you need for the future?

Choose 3/4 jobs / areas that you could see yourself doing – be ambitious for yourself.

Look at what skills / qualifications are useful for these jobs, and pick subjects based on that information.
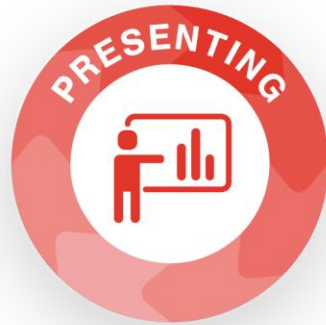
10 'least employable' Degrees:

- Culinary Arts
- Fashion Design
- Art History
- Music
- Psychology

- Communications
- Liberal Arts
- Studio Arts
- Performing Arts
- Anthropology and Archaeology

Source: https://www.careeraddict.com/useless-degrees

Skills Framework

PROBLEM SOLVING

The ability to find a solution to a complex situation or challenge

CREATIVITY

The use of imagination and the generation of new ideas

LISTENING

The receiving, retaining and processing of ideas

PRESENTING

The oral transmission of information or ideas

STAYING POSITIVE

The ability to use tactics and strategies to overcome setbacks and achieve goals

AIMING HIGH

The ability to set clear, tangible goals and devise a robust route to achieving them

LEADERSHIP

Supporting, encouraging and motivating others to achieve a shared goal

TEAMWORK

Working cooperatively with others to achieve a shared goal