DYW Skills Assemblies

Computing Science &

Business Education

What is Computing Science?

- Computer Scientists
  - Design and create new software
  - Solve computing problems
  - Develop different ways to use technology.

- Computer scientists are **logical thinkers** and **problem-solvers**.
  - They look at problems and try to come up with different ways of solving them
  - Technology advances constantly and people are always working on new and inventive ways to use it

What Skills do you learn in Computing Science?

- Coding skills
- Problem solving skills
- Creativity skills
- Organisation and logical thinking skills
- Numeracy skills
- Team working and responsibility skills

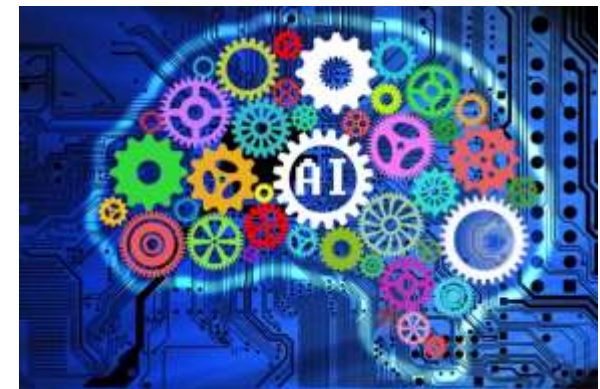# What kind of jobs can you do with Computing Science skills?

"In ten years, I can't imagine any jobs existing that don't require programming skills"

Donald Shaw, Google

Donald Shaw is a former pupil from an Edinburgh School who now works for Google in the USA

Whatever you do you will probably be using Computers in some aspect of your job

What jobs can you do with these skills?

- Programming & IT – Every company has these people!

- Project Management/Business Analyst/Technology Analyst

- Web Design Professionals/Content Designers/Social Media

- Cyber Crime/Cyber Security/Ethical Hacking

- Data Science/Data Analysis

- Artificial Intelligence/Machine Learning

- Jobs that haven't been invented yet!!

- Jobs you can travel the world with!

Choose Scotland, Choose a cool office - with cooler colleagues, Choose excellent money, Choose spending it wisely, Choose good job prospects, Choose team work, Choose job opportunities, Choose creativity, Choose travelling, Choose to create and invent, Choose shaping the future, #ChooseComputing Science.

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Choose.

#Choose Computing Science

Computing pays off for graduates

Students on tech courses can look forward to earning five times more than those with arts degrees from new universities

Alastair McCall and Sian Griffiths

Young people with a computer science degree dominate the league tables of the best-paid graduates in Britain, earning more than five times the amount of those doing poorly paid jobs with arts degrees.

Just six months after finishing their degrees, Imperial College London's computer science graduates are the winners, enjoying a median salary of £50,000.

The research, by The Sunday Times's new Good University Guide, published next Sunday, lays bare the extent to which what young people choose to study, and where to study it, is critical to their earning potential afterwards.

Last year Improbable, the virtual reality company co-founded by Imperial computer science graduate Peter Lipka, was valued at more than $1bn (£770m).

The £50,000 figure compares with average earnings for graduates in drama, dance and cinematics at Liverpool Hope University of £9,000, according to the research derived from Higher Education Statistics Agency's figures.

Overall, Imperial has the best-paid graduates across 67 subjects areas analysed in The Sunday Times rankings, with those who graduated last year earning an average salary of £30,000. By comparison, the least well-paid graduates across all subjects hail from Norwich University of the Arts and Leeds Arts University, earning £17,000.

Across the UK, just 15 of the 132 institutions ranked in next week's Good University Guide produce graduates with average starting salaries at or above the £25,000 threshold where student loan repayments start.

This means the vast majority of students are making no loan repayments at the start of their working lives, adding to growing fears about the scale of student debt that will be outstanding when the first loans are written off in 2042.

Yesterday Sam Gyimah, the universities minister, called on higher education bosses to "put an end to low-quality

ON COURSE FOR SUCCESS

Median graduate starter salary
◆ Highest ◆ Lowest

Computer science
Imperial College London
£50,000

Computer science Oxford
£45,000

Electrical and electronic engineering Bournemouth
£42,000

Drama, dance and cinematics
Liverpool Hope
£9,000

Psychology Bradford
£13,650

Education Wrexham Glyndŵr
Education Sheffield
£14,000

Courses with large pay discrepancies

Maths
£35,000 Oxford
£18,640 Aberystwyth

Psychology
£25,000 Cambridge
£13,650 Bradford

The Sunday Times Good University Guide is published next Sunday

degrees that are not providing the outcomes and opportunities that young people deserve".

Alan Smithers, professor of education at Buckingham University, said: "Teenagers need to be aware that your choice of subject and where you study can make a huge difference to your salary – and to your ability to repay student debt, now averaging £50,000 on graduation."

He added: "Most of the universities at the bottom of these salary rankings are new universities offering arts degrees."

This weekend, however, vice-chancellors defended arts degrees, saying they could lead to fulfilling if sometimes low-paid careers in creative jobs unlikely to be filled by robots in the future.

Professor John Last, vice-chancellor of Norwich University of the Arts and chairman of the United Kingdom Arts and Design Institutions Association, said: "Judgments about the worth of a job based on what happens in the first six months after graduation undervalue fulfilling, successful careers in the creative industries, which often start with internships or freelance work. These are jobs that are resistant to automation in British industries that are celebrated around the world, from fashion to film, photography to graphic design."

The research also reveals wide variations even within subjects. Graduates in accounting and finance from Warwick University earned £32,700 last year compared with just £17,000 for Ulster University and Derby University graduates.

Architecture graduates from Cardiff earn an average £26,000 at the start of their careers, while those from Liverpool John Moores earn £17,696. Anthropology graduates from University College London pocket £24,000, but those from Goldsmiths, University of London earn 27% less (£17,550).

ST DIGITAL
Search by course or university to find the top potential salaries
Go to thesundaytimes.co.uk

What skills can you develop with Business Education?

What is Business Education?

- Economics
- Marketing
- Finance
- HR
- Operations
- Customers

- Markets
- Strategy
- Communications
- IT
- Retail
- Investments

Business Education provides many valuable **transferable skills**

- Developing and understanding of how organisations operate
- Understanding of economics fluctuations and other external changes affecting business

What Skills do you learn in Business Education?

- Communication skills

- Analytical and Critical thinking

- Problem solving

- Decision making

- Logical thinking

- Team working and responsibility skills

What jobs can you do with these skills?

- Management consultancy
- Teaching/training
- Marketing
- Trading
- Chartered accountancy
- Market research
- Advertising
- Retail buying
- Personnel officer

- Investment banking
- Retail management
- Public relations officer
- Bank management
- Sales
- Distribution and logistics management
- Insurance underwriting
- Consumer products

No matter the job or career you choose in the future the skills you learn in Business are transferable