

# Careers Pathways in ICT and Computing

## Facts

- Common employers are IT consultancies and IT service providers. The IT departments of major organisations in the telecommunications, aerospace and defence, financial services, retail, public and third sectors also employ IT graduates. Small to medium sized enterprises have a wide range opportunities too.
- The IT and computing sector is forecast to continue to expand, and to be a key element of business growth. Employment in the sector over the next decade is projected to grow nearly five times faster than the UK average.
- Over half of IT professional find roles outside of the IT industry. Other industries that are big employers of IT Professionals include financial services, retail, telecommunications, the public sector or manufacturing.



## Job Opportunities

IT is at the centre of everyday life and found in almost all industries and business, information technology (IT) is a huge driver of growth in the UK

After completing a degree in ICT/Computing, initial jobs often include graduate trainee and entry-level positions as programmers, web developers, help-desk support, consultants and junior members of project teams.

Technicians are also often required to design, program test and evaluate computer software systems.

Further potential jobs include Geographical Information, Systems Officer, Database Administrator, Games Developer, Information Systems Manager, IT Consultant, Multimedia Programmer, Network Engineer, Systems Analyst and Systems Developer



# Careers Pathways in ICT and COmputing



Career Area	Job Description	Career Pathways	A Level Subject
IT Related Business	You would work for a company advertising them how to use information technology in order to meet their business objectives or overcome problems	This can include careers such as Database Admin, Information Systems Manager, IT Sales Professional or IT Support	You may wish to consider BTEC ICT, A Level Computer Science or Business Studies (A Level or BTEC)
Multimedia and Web Design	As a web designer you would be responsible for the design layout and coding for websites. In this role you would create projects using features such as text, sound, graphics, digital photography, 2D and 3D modelling, animation and video.	Careers as a Multimedia Programmer, Multimedia Specialist, Web Designer, Web Designer, Web Analyst and E-Commerce Manager are examples that this pathway leads to.	You may wish to consider BTEC ICT, A Level Computer Science, Business Studies (A Level or BTEC) A Level Art or A Level Media Studies
Computing	As a computing professional you would be responsible for development, management and support of the ICT infrastructure within an organisation, including the internal and external communication networks.	The pathway can lead to more technical aspects of ICT and Computing. For example, programming, computer design networking and telecommunications.	You should consider studying A Level Maths and Computer Science other useful subjects include Further Maths, Physics and IT

# Careers Pathways in ICT and Computing

## Useful Websites

Careers after your degree – [www.prospects.ac.uk](http://www.prospects.ac.uk)

National Careers Service [www.nationalcareers.service.gov.uk/](http://www.nationalcareers.service.gov.uk/)

The Chartered Institute of IT (BCS) [www.bcs.org](http://www.bcs.org)

BCS Women [www.bcs.org/bcswomen](http://www.bcs.org/bcswomen)

Institute of Consulting (IC) [www.iconconsulting.org.uk](http://www.iconconsulting.org.uk)

Institute of It Training (IITT) [www.thetrainingprofessional.com](http://www.thetrainingprofessional.com)

Institute of Management Information Systems (IMIS) <https://www.bcs.org/get-qualified/>

BBC work Experience [www.bbc.co.uk/careers/work-experience](http://www.bbc.co.uk/careers/work-experience)

Institute of Scientific and Technical Communications (ISTC) [www.istc.org.uk](http://www.istc.org.uk)

Institute of Analyst and Programmers [www.iap.org.uk](http://www.iap.org.uk)

Games Design [www.skillset.org/games](http://www.skillset.org/games)