

Digital and High Technology

We are Bristol's College

Welcome

Careers in Digital and High Technology

Here are just a few examples of job titles that have been advertised in the South West region within the last year:

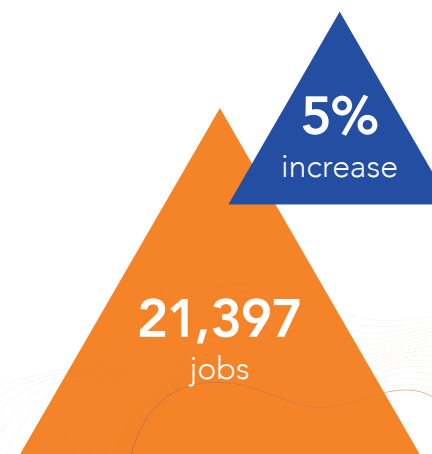
- IT Technician
- IT Project and Support Managers
- Electrical and Electronics Technicians
- Computer Programmer
- Web Developer and Designer
- Cyber Security Analyst
- IT Business Analysts, Architects and Systems Designers
- Telecommunications Engineers
- Network Engineer
- Software Tester/Test Analyst

Your job may involve creating applications or systems, solving problems with technology or supporting those who use it. Employers in the IT industry also require graduates to work in their business, marketing, human resources (HR) and finance functions.

Many IT professionals also choose to work outside the sector, such as in the IT departments of retail, finance, manufacturing and public sector organisations.

How many jobs are out there?

In 2020 there were **21,397 jobs in the IT industries** advertised in the South West region. This is an **increase of 5%** for digital technology roles from 2018 – 2020.



What sort of skills will I need?

Here are some key skills that employers in this sector commonly include in job adverts:

- Communications
- Critical Thinking
- Management and Leadership
- Problem Solving
- Active Listening
- Customer Service
- Adaptability
- Organisation
- Planning
- Persistence and Determination



What can I expect to earn within this industry?

Salary is always dependant on qualifications, skills and experience but you could expect to start on a **salary of around £25,000** and above the national median of **£30,000** (which has remained the same since 2015) to **£32,000**.

The average salary for IT jobs within this area is **£42,500**.

According to Tech Nation's UK tech in 2020 review, just under **three million people** were employed in the UK's digital tech economy - an **increase of 11%** within two years.



Who are the main graduate employers?

Most employers expect you to have gained some technical knowledge of IT, although any relevant work experience or internship would be beneficial as you seek to land your first role. Vacancies for entry-level and graduate jobs can also be found on specialist IT recruitment sites.

Large and global companies include:

- Accenture
- Amazon
- Apple
- Capgemini
- Cisco
- Cognizant
- Facebook
- FDM Group
- Fujitsu
- Google
- IBM
- Infosys
- Intel
- Microsoft
- Rockstar Games
- Samsung
- Softcat
- Ubisoft

Major telecommunications companies include:

- BT Group
- EE
- Sky UK
- TalkTalk
- Telefónica UK (O2)
- Three
- Virgin Media (Virgin Mobile UK)
- Vodafone

Student Case Study

18-year-old Ellie Hayes earned two Distinction* and a Distinction in Computing and decided to drop her plans of a gap year, due to the pandemic, and instead look at continuing her computing studies at university in Norway.




“ I was over the moon with my results. Being at City of Bristol College has been a really great experience and I have enjoyed my time and made some great friends.

All my teachers were really supportive and I have been able to approach them for any support needed. I would strongly recommend the college and pursuing a career in computing to anyone. ”


 Ellie Hayes, Computing student






Computing

NAME OF COURSE	ENTRY REQUIREMENTS	BASIC INFORMATION	PROGRESSION TO FURTHER STUDY OR HE	PROGRESSION TO APPRENTICESHIPS
BTEC First Level 2 Computing and creative Technology 	<ul style="list-style-type: none"> Min 4 GCSE at grade 3 Must have English & Maths at Level 1 or Grade 2 to be eligible for GCSE retake. 	2 External assessments	<ul style="list-style-type: none"> Progression to Level 3 options BTEC Computing Level 3 ICT Systems and principles Level 3 Game Design Level 3 Digital Graphics Level 3 	<ul style="list-style-type: none"> Digital Technician Level 3 Software Developer Level 3 Digital Marketing Level 3
BTEC Nationals – Computing RQF (year 1) 	<ul style="list-style-type: none"> Ex Cert – 4 GCSE's at 4-9 (A-C) Must include at least Maths or English at grade 4 or FS Level 2. FDN 5 GCSE at GCSE's at 4-9 (A-C) Must include both Maths and English at grade 4 or FS Level 2 	2 External assessments	<ul style="list-style-type: none"> Ex Cert – Progression to Level 3 Diploma FDN – Progression to Level 3 Ex Dip Progression to Higher education including HNC/D in Computing or Games Design at CoBC dependant on achievement of 48 UCAS points 	<ul style="list-style-type: none"> Digital Technician Level 3 Infrastructure Technician Level 3 Software Developer Level 3 Cyber Security and Networking Level 3 Digital Marketing Level 3
BTEC Nationals – Computing RQF (year 2) 	<ul style="list-style-type: none"> Diploma - Must have completed at least and Extended Certificate in Computing and Must include at least Maths and English at grade 4 or FS Level 2. Extended Diploma - Must have completed at least and Foundation Diploma in Computing and Must include at least Maths and English at grade 4 or FS Level 2 	Dip - 1 External assessment Ex Dip - 2 External assessments	Progression to Higher education including HNC/D in Computing or Games Design at CoBC dependant on achievement of 48 UCAS points BSc hons progression at any university in subjects including: <ul style="list-style-type: none"> Computing Computer Sciences Data Sciences Digital Technologies Game Design and Development Business Systems Cyber Security 	<ul style="list-style-type: none"> Software Developer Level 4 Cyber Security and Networking Level 4 Data Technician Level 4 Degree Apprenticeship also available




ICT

NAME OF COURSE	ENTRY REQUIREMENTS	BASIC INFORMATION	PROGRESSION TO FURTHER STUDY OR HE	PROGRESSION TO APPRENTICESHIPS
BTEC Level 1 Introductory Certificate 	<ul style="list-style-type: none"> Min 3 GCSE at grade 2 Must have English & Maths at Level E3 or Grade to be eligible to take FS Level 1 		<ul style="list-style-type: none"> Progression to Level 2 options BTEC First Level 2 Computing and creative Technology ICT Systems and Principles for IT Professionals Level 2 UAL Level 2 Games Design Level 2 	Level 2 IT Technician


ICT continued

NAME OF COURSE	ENTRY REQUIREMENTS	BASIC INFORMATION	PROGRESSION TO FURTHER STUDY OR HE	PROGRESSION TO APPRENTICESHIPS
ICT Systems and Principles for IT Professionals Level 2 	<ul style="list-style-type: none"> Min 4 GCSE at grade 3 Must have English & Maths at Level 1 or Grade 2 to be eligible for GCSE retake 		<ul style="list-style-type: none"> Progression to Level 3 options BTEC Computing Level 3 ICT Systems and principles Level 3 Game Design Level 3 Digital Graphics Level 3 	<ul style="list-style-type: none"> Digital Technician Level 3 Software Developer Level 3 Digital Marketing Level 3
BTEC IT Support Technical Certificate (Adult Route) 	<ul style="list-style-type: none"> Diagnostic assessment Must have English & Maths at Level 1 or Grade 2 to be eligible for GCSE retake 			
ICT Systems and Principles for IT Professionals Level 3 	<ul style="list-style-type: none"> 4 GCSE's at 4-9 (A-C) Must include at least Maths or English at grade 4 or FS Level 2. 	1 External Assessment	<ul style="list-style-type: none"> Progression to Level 3 options BTEC Computing Level 3 ICT Systems and principles Level 3 Game Design Level 3 Digital Graphics Level 3 	<ul style="list-style-type: none"> Digital Technician Level 3 Software Developer Level 3 Digital Marketing Level 3

Game Design & Development

NAME OF COURSE	ENTRY REQUIREMENTS	BASIC INFORMATION	PROGRESSION TO FURTHER STUDY OR HE	PROGRESSION TO APPRENTICESHIPS
Level 1 Digital Media Introductory Certificate 		<ul style="list-style-type: none"> Min 3 GCSE at grade 2 Must have English & Maths at Level E3 or Grade to be eligible to take FS Level 1 	<ul style="list-style-type: none"> Progression to Level 2 options UAL Level 2 Games Design Level 2 BTEC First Level 2 Computing and creative Technology ICT Systems and Principles for IT Professionals Level 2 	<ul style="list-style-type: none"> Level 2 IT Technician
UAL Game Design Creative media Production Technology Level 2 	<ul style="list-style-type: none"> Min 4 GCSE at grade 3 Must have English & Maths at Level 1 or Grade 2 to be eligible for GCSE retake 		<ul style="list-style-type: none"> Progression to Level 3 options BTEC Computing Level 3 ICT Systems and principles Level 3 Game Design Level 3 Digital Graphics Level 3 	<ul style="list-style-type: none"> Digital Technician Level 3 Software Developer Level 3 Content Developer Level 3 Level 3 Digital Marketing Level 3
UAL Game Design Creative media Production Technology Level 3 Diploma (year 1) 	<ul style="list-style-type: none"> 5 GCSE's at 4-9 (A-C) Must include at least Maths or English at grade 4 or FS Level 2. Maths and English - We can accept progression with one retake, but must be at GCSE and only be one subject 		<ul style="list-style-type: none"> Progression to Higher education including HNC/D in Computing or Games Design at CoBC dependant on achievement of 48 UCAS points Foundation Degree in Graphic Design with Digital Arts if achieving 56 UCAS points Side Step Progression to BTEC Computing Nationals 	<ul style="list-style-type: none"> Digital Technician Level 3 Software Developer Level 3 Content Developer Level 3 Level 3 Digital Marketing Level 3

Game Design & Development continued

NAME OF COURSE	ENTRY REQUIREMENTS	BASIC INFORMATION	PROGRESSION TO FURTHER STUDY OR HE	PROGRESSION TO APPRENTICESHIPS
UAL Game Design Creative media Production Technology Level 3 Extended Diploma (year 2) 	<ul style="list-style-type: none"> • 5 GCSE's at 4-9 (A-C) Must include at least Maths or English at grade 4 or FS Level 2. • Maths and English - We can accept progression with one retake, but must be at GCSE and only be one subject 		<ul style="list-style-type: none"> • Progression to Higher education including HNC/D in Computing or Games Design at CoBC dependant on achievement of 48 UCAS points • Foundation Degree in Graphic Design with Digital Arts if achieving 56 UCAS points • BSc honours progression at any university in subjects including: <ul style="list-style-type: none"> • Computing • Computer Sciences • Data Sciences • Digital Technologies • Game Design and Development 	<ul style="list-style-type: none"> • Digital Technician Level 3 • Software Developer Level 3 • Content Developer Level 3 Level 3 • Digital Marketing Level 3

