

# My Learning, My Future

## Where can studying Computer Science/IT take you?

Highlighting the relevance of Computer Science/IT  
to future careers and opportunities





# Why Computer Science/IT matters

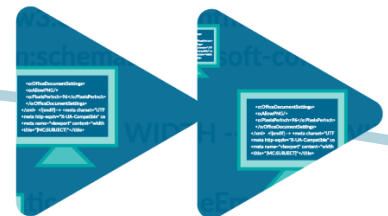
**Have you ever considered where studying Computer Science/IT can take you?**

Today, we'll be exploring some of the career opportunities that are available to you, as well as the various pathways you can take to get there.

What careers can you think of that use Computer Science/IT?

What do you think these roles involve (daily task, etc.)?

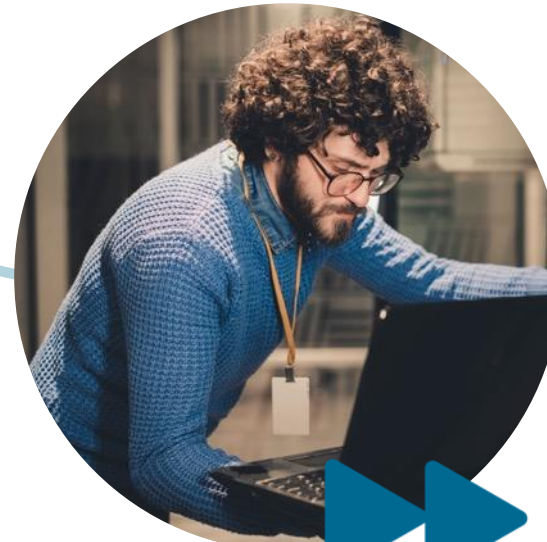
What skills do you think you might need for these roles?





# Explore a career as a...

Here are some  
example roles and  
careers linked to  
Computing  
Science/IT



Senior System  
Engineer

BBC Bitesize Video



Cyber Security  
Apprentice/Officer

BBC Bitesize case study



Software  
Engineer/Developer

BBC Bitesize case study

BBC Bitesize case study

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Science/IT



**Business Analyst**

BBC Bitesize Video



**Computer Games  
Developer**

BBC Bitesize case study

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# Discover more about the role

Explore careers using National Careers Service and find out about what jobs involve and how they are right for you

## Includes:

- Average Salary
- Typical Hours
- Work patterns
- Pathways/How to Become
- Essential Skills
- Daily Tasks

## Research Ideas:

Senior System Engineer  
Cyber Security  
Apprentice/Officer  
Software Engineer/Developer  
Business Analyst  
Computer Games Developer

**National Careers Service**

We provide information, advice and guidance to help you make decisions on learning, training and work.

This service is available to people who live in England.

Skills assessment	Explore careers	Find a course
Learn more about your skills and match them to potential new careers.	Choose from over 800 career profiles to discover what each job involves.	Look for online learning opportunities and training courses local to you.
<a href="#">Assess your skills</a>	<a href="#">Search job profiles</a>	<a href="#">Look for courses</a>

**Careers advice**

Making career choices	Getting a job	Progressing your career
Whether starting your career, changing job or if you have been affected by COVID-19, understand and make the right choice for you.	Be successful in the recruitment process with tips on great CVs, interviews and graduate scheme applications.	Move up in your career by developing new skills. Find opportunities like volunteering and online learning.

**About us**

The National Careers Service can help you with your career, learning and training choices. [Find out more](#) about the different ways we can support you.

**Speak to a careers adviser**

Wherever you are in your decision-making, you can call us on [0800 100 900](tel:0800100900) or [use webchat](#).

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# Where can Computer Science/IT take you

## Pathways at 16

### Example Post 16 Routes

- T-Level Digital Production, Design and Development
- T-Level Digital Business Service
- T-Level Digital Support Services
- A-Level Computer Science
- BTEC Computing
- Level 2/4 Esports Management, Games Development, Games Art, Games Technology

### Apprenticeship Ideas

- Cyber Security Technologist
- IT Solutions
- Software Developer
- Infrastructure Technician



**ICT**  
**WE'VE GOT THE APPRENTICESHIP FOR YOU!**

**AEROSPACE SOFTWARE DEVELOPMENT ENGINEERS**  
help to design and implement software, as well as research, develop, build and maintain aircraft or their systems to make them quicker and safer.

**SOFTWARE DEVELOPERS**  
build and test high-quality code across front end, logic and database layers.

**CYBER SECURITY TECHNOLOGISTS**  
manage and deal with cyber threats, hazards and risks to protect organisations, systems and people from harm.

**INFRASTRUCTURE TECHNICIANS**  
set people up on Information Technology (IT) systems, provide support and solve problems to help organisations run smoothly.

**DIGITAL AND TECHNOLOGY SOLUTIONS PROFESSIONALS**  
investigate, identify and implement technology solutions that enable businesses to develop new products and services, as well as increasing productivity.

**MORE INFO**

There are many other apprenticeships you might be interested in:  
Cyber Intrusion Analyst, IT Solutions Technician, Unified Communications Technician, Digital Community Manager, Science Industry Plant Engineer and many more!

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to find out more.





# Where can Computer Science/IT take you

## Pathways at 18

### Example Degrees:

- Computing Science
- Computer Game Technology
- Computing and Forensic Security
- Artificial Intelligence
- Software Engineering

### Apprenticeship Ideas

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to find out more.

[Read more >](#)



# Essential Skills

Here are three key skills needed for a career that uses Computer Science/IT.



The use of imagination and the generation of new ideas

Video

[Watch here](#)

Skills Builder  
Resource KS3

[Short Lesson  
Listening Step  
6-8](#)

Skills Builder  
Resource KS4

[Short Lesson  
Listening Step  
8-10](#)



The oral transmission of information or ideas

[Watch here](#)

[Short Lesson  
Speaking Step 6-  
8](#)

[Short Lesson  
Speaking Step  
8-10](#)



The ability to find a solution to a situation or challenge

[Watch here](#)

[Short Lesson  
Problem Solving  
Step 6-8](#)

[Short Lesson  
Problem Solving  
Step 8-10](#)



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