Everybody wants you!
There will always be a high demand for your skills.

The world is your oyster
Highly transferable skills mean you can move anywhere in the world and to any industry.

Problem solving
Solving cyber security problems is the ultimate challenge.

Many paths to success
Be a real life Digital Defender - Your journey starts here!
Whatever your interests and skills, there is an exciting job for you

Technology skills are very valuable when it comes to working in cyber security, but this is not just a career for ‘techies’ as we need a very wide range of skills.

In addition to technology based careers, there is a wide range of other options including: threat intelligence, legal and regulatory compliance, digital forensics, cultural change, training, project management, business analysis, recruitment and more. All of these people are part of the Digital Defenders team who work together to win the fight against cyber crime.

Even among the technical jobs on offer, there’s a huge choice including:

- **Penetration testing**
- **Cyber incident response**
- **Malware reverse engineering**
- **Network monitoring and intrusion**
- **Security architecture**
- **Security product design**

All these different career pathways can lead you to senior technical and management positions. You could even start your own business.

Visit inspiredcareers.org to see people talk about what they do and how they got into the industry and find your dream job from dozens of choices.
Money makes the world go round

The world has woken up to cyber security, with stories in the news almost every week of new cyber attacks.

Faced with online attacks, business and government are looking for experts who can protect their systems from cyber criminals – and they are willing to pay high salaries and provide training and development.

There are great opportunities for anyone starting a career in cyber security:

- Salaries in cyber security are some of the fastest growing in the UK – rising at an average 14% a year
- For senior security professionals, earnings can surpass £100,000 a year
- Your earnings are based on merit, not your sex, age or ethnicity

Of course a career in cyber security is not just about the money, but it helps.

To find out more about salaries in cyber security you can visit: [www.itjobswatch.co.uk/jobs/uk/cyber%20security.do](http://www.itjobswatch.co.uk/jobs/uk/cyber%20security.do)
Be part of a dynamic industry

It's clear from films and TV that cyber security experts are becoming today's Digital Defender heroes

From CSI: Cyber to James Bond's smart young techie sidekick ‘Q’, cyber security is being portrayed as an exciting, different and cutting-edge career.

This glamorous and fast moving Hollywood film image is not that far from real life!

Governments, businesses and consumers know that cyber crime is one of the biggest threats they face. Every day there are more attacks, from major corporate hacks to the theft of people’s credit cards and personal data. Companies can lose millions as well as their hard earned reputations and just think of the impact if a cyber criminal could cut off the Internet, electricity or water supply.

It is predicted that online crime will cost businesses as much as £1.4 trillion a year by 2019. So cyber security experts are among the most prized professionals worldwide.

What’s more, the threat is constantly changing, which means you will always be learning and developing new skills and facing new challenges.

There is nothing dull about a career in cyber security and you have guaranteed star quality.
Help companies and people stay safe by defending against cyber crime

Cyber crime is both global and personal. UK companies have to defend against hundreds of thousands of cyber attacks EVERY DAY and in some cases we have seen attack numbers increase by 1,000% in just 18 months.

It’s not just big business under threat. It could be someone you know. Take the case of the single mother of two from County Down in Northern Ireland who was robbed of nearly £77,000 in an email ‘phishing’ scam. She is just one of many individuals who get targeted by cyber criminals on a daily basis and you could make a real difference by helping to keep people like this safe.

The online threat to companies and people’s safety is huge and growing. Across the UK, the National Crime Agency, police forces, company security teams and special initiatives like Action Fraud, Cyber Streetwise and GetSafeOnline are all fighting this menace – but they need more help. They need people like you.

If you want the satisfaction of doing a rewarding job and if you want to make a real difference, join us to become a Digital Defender and work in cyber security.
Everybody wants you!

There will always be a high demand for your skills

The UK is a cyber world-leader with a growing reputation for being at the forefront of industry, research, innovation and fighting international cyber crime. More than 40,000 people already work in the UK information security industry and demand for cyber skills is growing fast in every type of company and government department.

So, whether you dream of working in sports or fashion, media or the emergency services, finance or retail, cyber skills could be your route in. Because, no matter what size or type of organisation, they all need security experts to protect their sensitive data and customer information.

This situation isn’t going to change any time soon, with a predicted worldwide shortage of 1.5 million information security professionals by 2020, cyber will stay an exciting and rewarding in-demand career – across every industry – for years to come.
The world is your oyster

Highly transferable skills mean you can move anywhere in the world

The UK cyber security industry contributes over £17 billion to the UK economy. Tens of thousands of home-grown experts are working to protect UK businesses, government agencies and consumers.

On a global scale, the rise in online crime is outpacing the supply of cyber defenders – and the UK’s reputation for security skills means overseas buyers are also beating a path to our door.

Exports of UK cyber products and services are growing by over 15% a year. That means plenty of opportunities for UK cyber professionals to work overseas.

So, if you have always wanted to travel the world and experience life in other countries, a career in cyber security might just be your passport to success and open doors to exciting opportunities, from Africa, Asia and Australia to mainland Europe, Canada and the USA.
Problem solving

Cracking cyber security problems is the ultimate challenge

An ideal career is one where you are valued, earn lots of money, enjoy yourself, are continually challenged, make a difference and get great job satisfaction while you’re doing it. Does that sound like a career for you?

Cyber security ticks every box. Not only is it well-paid and in-demand, but if you like computer games and puzzles, you will spend your time doing what you do best and having fun, overcoming new challenges every day.

This is the ultimate technical challenge, guaranteed to keep you on your toes.

So, if you think this might be the career for you...

• Why not try out the free cyber games and competitions in the Cyphinx 3D virtual world? Anyone can play, whatever your age or skill level, competitively or just for fun.

• See if you can master the fun and challenging tech games at Junior Bring It On for 8-12 year olds.

You might find you have a talent you didn’t know you had – which means that when you leave school, you have a job you are good at and enjoy!
Many paths to success

Your journey starts here!

Choosing your career is a big decision, but don’t worry. If you like cyber security, you have options and opportunities at every stage in your education.

There’s a route in whether you have GCSEs, A Levels, a Degree, or all of the above. Just choose the best option for you:

* If you are 16+ with 5 GCSEs at grades A*-C, including English Language and Maths, or equivalent qualifications, you could earn-while-you-learn through a cyber security or broader IT Apprenticeship.

* If you are 18+ with 2+ A Levels at grades A*-C or equivalent qualifications, you can kick-start your career through a Higher Apprenticeship, or a Degree Apprenticeship where you combine university life with practical experience at leading employers.

* If you are 21+ with a Degree or Higher Apprenticeship...you can move directly to applying for a well-paid and rewarding cyber security job.

Having a Computer Science GCSE and/or A level can be an advantage when seeking a career in cyber security, but is not essential. There are lots of jobs that do not require either. If you want further advice ask your school or college, or look at some of the information sources here.

For more information, please visit:
Tech Partnership TechFuture Careers
Where next?

Want to find out more about starting a career in cyber security, or just try some games and challenges to put the idea to the test? Here’s some sites that can help...

**Cyber Security Challenge.** Unearth your hidden cyber talents and find the education and training opportunities on offer. Includes national competitions and learning programmes.

**Cyphinx.** A 3D virtual world where budding security professionals can play games and competitions, and test and demonstrate their cyber skills to each other and potential employers.

**TechFuture Careers.** For anyone interested in a tech career, no matter what stage of education you’re at. Includes free resources for school computing classes and clubs, and access to challenges and competitions.

**Tech Future Girls.** An online club with challenges to help girls develop their tech skills.

**Girl Geeks.** Helps connect female students talented in STEM (science, technology, engineering, maths) with colleges, universities and businesses who are looking for them.

**Junior Bring IT On** (for 8-12 year olds). Includes cool jobs in IT and fun games.

**Future Morph.** Offers information, quizzes and games to help anyone aged 11-16+ studying STEM subjects to find their future career – and not just becoming a scientist or engineer!

**Inspired Careers.** Browse the broad range of jobs available in cyber security.

**Advice on apprenticeships**

**Information for teachers** on all the cyber security learning resources and activities available to schools and further education.
Glossary

**Coder**: Person who instructs a computer program.

**Cyber attacks**: An attack by individuals or whole organisations that target computer information systems, infrastructures, computer networks, and/or personal computer devices. This can be done in many different ways, usually stealing, altering, or destroying a specified target by hacking into a vulnerable system.

**Cyber crime**: Crime that involves a computer and a network. The computer may have been used in the commission of a crime, or it may be the target.

**Cyber defence team**: Team that works to protect information systems from theft or damage to the hardware, the software and the information on them, as well as from disruption of the services they provide.

**Cyber incident response**: Provides cyber incident management and response.

**Cyber Security**: Is the protection of information systems from theft or damage to the hardware, the software, and to the information on them, as well as from disruption of the services they provide.

**Cyber skills**: Experience and skills gained from working within or studying cyber security.

**Hackers**: Someone who seeks and exploits weaknesses in a computer system or computer network.

**Malware reverse engineering**: Takes apart and analyses malware in order to guard against future attacks.

**Network monitoring and intrusion**: Assesses and analyses the level of impact from an attack.

**Online criminals**: Criminals that either use or target a computer and a network when committing a crime.

**Online crime**: Crime that involves a computer and a network. The computer may have been used in the commission of a crime, or it may be the target.

**Penetration testing**: A person who is employed by an organisation to make a software attack on their own computer system to look for security weaknesses.