

A STUDENT'S

GUIDE TO E-SAFETY & CYBER CAREERS



CYBER CAREERS ADVICE
KINDLY PROVIDED BY
LEICESTERSHIRE POLICE
CYBER CRIME UNIT



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HOW TO USE THE INTERNET SAFELY, RESPONSIBLY AND POSITIVELY

The UK Safer Internet Centre has 5 top tips for secondary school children using the internet <https://www.saferinternet.org.uk/advice-centre/young-people/resources-11-19s>



CHILDNET HUB

Childnet has an online space where children can go to find out more about hot topics, online reputation, how to make a report and needing help <https://www.childnet.com/young-people/secondary>



KEEPING THE INTERNET FUN

Thinkuknow is the education programme from NCA-CEOP, a UK organisation which protects children both online and offline, has advice particularly around:



- Live streaming
- Following digital footprints
- What sexual abuse is

Get advice about keeping yourself and your friends safe at https://www.thinkuknow.co.uk/11_13/Need-advice/

Finally, all the school websites have the back-catalogue of LAT e-safety updates. These can be found at your school's website address, followed by [/current-students/student-support/e-safety/](#)

CYBER SECURITY CAREERS

The cyber security industry offers financially rewarding, technically challenging and prestigious opportunities for the right type of candidate.

Now, more than ever, is the best time to start looking into cyber security careers. Indeed, with the ever increasing fee's for university places, many students are already seeking high profile apprenticeship.



"By 2021 there will be 3.5 million unfilled cybersecurity jobs world-wide."

WHY WORK IN CYBER SECURITY

TRANSFERABLE SKILLS:

Improving an organisation's security can be about being part of a team; understanding group dynamics and having good communication skills. However, there is also plenty of scope for individual ability, creativity and flair.

In part, this is because cyber security covers so many different types of roles. You could be a pen-tester, a forensic expert, an auditor, a security consultant, a software developer or Chief Information Security Officer.

REMUNERATION:



The severe skill shortages in cyber security means that professionals are high in demand and are extremely well paid. Indeed, it's not just the UK that's crying out for young professionals - it's everyone. As such, the opportunities to work abroad have never been better.

MAKING A DIFFERENCE:

Whether you are thwarting malware to stop it attacking your friends and family online, or unpicking attacks to prevent future breaches, you are helping to make technology safer for everyone.

DIVERSITY OF EXPERIENCE:

Cyber security is not a single role, despite common preconceptions.

There are a huge number of different disciplines, enabling you to pivot throughout your career to suit your growing interests and expertise.

We've seen many of our friends and colleagues start in forensics and incident response, only to jump across to security leadership or network security architecture.

CAREER LONGEVITY:

Our dependence on technology is increasing. Estimates vary, but some experts believe there are 30 billion internet connected devices right now. Whatever the actual figure, it seems that in this industry you will always have work.

CYBER FIRST BURSARY

CyberFirst is a scheme led by the National Cyber Security Centre which aims to prepare students for a career in cyber security.

"Quite simply, this is a student development opportunity like no other. Working with GCHQ, the NCSC, as well as industry and other government departments, you'll gain unrivalled insight into the constantly evolving world of cyber security."

A £4,000 per year - tax free - bursary is available as well as paid cyber skills training.

APPLICATION REQUIREMENTS

- Be a UK National
- Have (or expect to have) 3 A Levels in any subject Grade B or above
- Have an offer to study at University



CYBER FIRST DEGREE APPRENTICESHIP

This is a 3 year apprenticeship with exposure to some of the world's most cutting-edge cyber security technologies.

Successful applicants will 'earn while they learn', with a starting salary of £18,495 and a recognised degree.

APPLICATION REQUIREMENTS:

Have (or expect to have), 3 'A' Levels in any subject at grade C or above (or equivalent).

CYBER FIRST COURSES

CYBER FIRST ADVENTURES:

This is a free 1 day course aimed at 11-14 year olds. The course consists of four themed modules offering interactive, hands on, self-guided, exploratory learning.

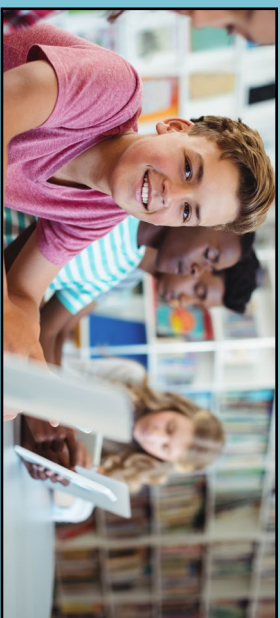


CYBERFIRST DEFENDERS:

A free 5 day residential & non-residential course aimed at 14 to 15 year olds. A valuable introduction to the tools, knowledge and skills required to build & protect small networks & devices.

CYBERFIRST FUTURES:

A free 5 day residential and non-residential course aimed at 15 to 16 year olds. Ideal for students



looking to study computer science at AS/A Levels, or equivalents.

CYBERFIRST ADVANCED:

A free five-day residential and non-residential course aimed at 16 to 17 year olds. This is designed to expand the knowledge of anyone studying computer science at AS/A Level or equivalent or for any student who has a real interest and aptitude for computers.

CYBER DISCOVERY

No prior experience required!

This is a uniquely developed; extra curricular, government sponsored scheme for students in the UK aged between 14-18.

The course is designed to gradually build your knowledge and skills of cyber security through free and accessible online materials.

Entry is free and you can participate as an individual or as part of a Cyber Discovery club which are typically run by teachers and parents.

"The overall programme was eye-opening ... I explored in-depth how easily cyber criminals can gain access to your data and the techniques they use."

APPLICATION REQUIREMENTS

Begin your journey by taking the Cyber Assess online challenge. This is a set of fun, interactive activities that represent realistic scenarios and threats developed by actual practitioners in the field of cyber security. Each challenge is harder than the last and identify those who possess the qualities needed to succeed in the later stages of the programme.

PLAY ON DEMAND AND CYPHINX

A series of games that mimics the work of front line cyber security professionals. Not only will these challenge the extent of your knowledge, but they'll prepare you for the more advanced competitions held by Cyber Security Challenge UK.

CYBER CENTURION

Team based challenges for 12-14 and 15-18 year olds. Teams can be girls, boys, mixed or composed of cadets.

Each team must play a series of online qualifying rounds, which will challenge them to learn about networking, defence and cyber security. If the team makes it to the leader board . . .

Get invited to play in the National Finals, a face-to-face competition to decide the ultimate champion!



The **Lionheart Academies Trust** is a Leicestershire-based Multi-Academies Trust with one sixth form, six secondaries and four primaries. Founded in 2013, the Trust was created to enhance educational provision in the East Midlands so that any young person from any background receives an equal chance to be successful in whatever they choose to do.

