



<it's no secret> cyber security, breach_firewall
(vulnerability) spyware, <gloucestershire is
fast becoming> data, upgrades_fast_attack
<surface> malware_becoming (cloud services)
tap, recover_remediate> cyber criminal_lone
wolf <the centre> prevention, threat
Confidential (database) <of our> resilient, risk
level, ransomware_upgrade(exploit) spam
<cyber industry> phishing, <incident>
(data in transit) virus, response, analysis
<leaks, endpoint attacks> scanning, infect_
prevention.

ARE YOU PART OF IT?

eak away from the ordinary_

Discover our cyber security degree
apprenticeship in partnership with UWE Bristol
and delivered in our brand new
world-class £3million cyber facility.





<Cyber Security Degree Apprenticeship>

It's no secret Gloucestershire is fast becoming the centre of our cyber industry.

ARE YOU PART OF IT?

Discover our cyber security degree apprenticeship, in partnership with UWE Bristol and delivered in our brand new world-class £3million cyber facility funded by the West of England Institute of Technology.

The Cyber Security Degree Apprenticeship is in partnership with University of the West of England (UWE Bristol). Taught by UWE Bristol and Gloucestershire College lecturers, apprentices earn a UWE Bristol degree, in new, world-class facilities within easy reach of work or home.

Apprenticeship graduates will gain a BSc (Hons) degree and be able to operate autonomously; lead teams that manage cyber security risks and secure solutions end-to-end; and be able to detect and respond to incidents.

With the average university student debt being £50,000, an apprenticeship is an excellent debt-free route to a degree. There are no tuition fees and no student loans are required. Apprentices earn while they learn, gaining work experience with a reputable business, applying their learning to real business needs. A typical Cyber Security Degree Apprentice can earn £17,000 and over per year.

<Grow your own tech talent>

If you own a business or are responsible for cyber security within your organisation, investing in apprentices is a reliable way to future proof a business and cherry-pick the best upcoming talent.

The Cyber Security Degree Apprenticeship is suitable for your existing employees, as well as new recruits. If you pay the apprenticeship levy, you can use your levy funds to bring in new talent to the business, or if you are not a levy payer, you will contribute just 5% of the total cost of the training. —

"It's hard to find highly skilled candidates in tech, so we develop talent in-house. Apprentices make loyal, skilled employees who have a positive impact on the whole team. They give us a competitive advantage."

Anthony Impey MBE, Optimity



Gloucestershire College Cyber classrooms

<What Does the Degree Apprenticeship Involve?>

The apprenticeship takes three and a half years, plus an end point assessment to completion. After, apprentices can consider progression to the Masters with UWE Bristol.

The apprenticeship will cover the following core areas:

- </> Foundations of cyber security
- </> Computer architecture and operating systems
- </> Network and programming foundations
- </> Operating system security
- </> Embedded system and information security
- </> Cryptography, mathematics and algorithms
- </> Cyber security assurance and risk management
- </> Cyber security incident management

Apprentices will study at GC for one week a month, and for two weeks in September and June. In their third year, students will study with UWE Bristol and have the opportunity to use their facilities.

This year's apprentices will be the first to study in GC's brand new £3million world-class cyber security facility funded by the West of England Institute of Technology - a government initiative to grow cyber and technical skills locally. They will problem solve real life cyber security threat scenarios in five specialist rooms: computing labs, attack and defence rooms; using

state-of-the-art forensic toolkits and cutting edge technology.

<Assessment and Support>

The course is broken down into four modules per year. Assessment includes practicals, reports, presentations and exams. Apprentices will be expected to collect and provide a portfolio of work based evidence throughout their course which is reviewed by an assessor. The final element, is an End Point Assessment and awarded by independent assessors. They'll review a portfolio of evidence, a set project and interview the apprentice.

A training coordinator will be regularly in touch with both the apprentice and employer to set targets and review progress, keeping the apprentice on track.

<Entry Requirements>

To start the course, apprentices could typically have three A Levels: at least a B, B, C that includes two Science, Technology, Engineering or Math subjects. Alternatively, they could have a distinction and two merits in a relevant Level 3 BTEC qualification. Other relevant qualifications or work experience will be considered. —

<Gloucestershire is Fast Becoming the Centre of the UK's Cyber Industry>

Our Cheltenham Campus is just a stone's throw away from GCHQ, a world-leading intelligence, cyber and security agency that keeps the UK safe. They employ over 5,000 people.

By 2025, GCHQ will have a new neighbour, a 45 hectare Cyber Park putting the town at the forefront of cyber security and creating 7,000 new jobs. Cyber Central UK is championed by Cheltenham Borough Council, and will firmly put Cheltenham on

the cyber map regionally, nationally and globally . It is part of a wider Golden Valley development with exciting plans for homes, restaurants, leisure spaces and a shuttle service to the town centre.

Cheltenham is also home to trailblazing cyber security co-working space Hub8, in the Brewery Quarter. Hub8 is delivered in partnership with CyNam (Cyber Cheltenham). —

www.gloscol.ac.uk/cybersecurity

01452 563400

business.hub@gloscol.ac.uk





<In Good Company>

We already work with some of Gloucestershire's best businesses to deliver our IT and computing apprenticeships. —



Gloucestershire
COUNTY COUNCIL