

Do you want to work in cyber security?

This is how our curriculum can guide you there

Key Stage 4	<p>GCSE Computer Science</p> <p>You will learn to:</p> <ul style="list-style-type: none"> Develop your programming skills. Investigate different types of interface. Discover different cyber security threats and preventions Discuss real life cyber security events and analyse the impact on society. 	<p>BTEC L2 Digital Information Technology</p> <p>You will learn to:</p> <ul style="list-style-type: none"> Investigate the threats to data. Discover why systems are attacked. Look into external and internal system threats. Discuss the impact of data breaches. 	<p>BTEC L2 Creative Media Production</p> <p>You will learn to:</p> <ul style="list-style-type: none"> Investigate cyber security media products. Look into why organisations need to consider cyber security. Create a series of media products designed to help businesses stay safe from attacks. 	<p>Extras</p> <ul style="list-style-type: none"> Develop your practical hacking skills through our international Immersive Labs competition. Compete in a national Cyber Discovery competition. Take part in cyber security themed work experience.
Key Stage 5	<p>A Level Computer Science</p> <p>You will learn to:</p> <ul style="list-style-type: none"> Develop advanced programming in a number of different database, object, procedural and web based languages. Analyse the differences in hardware and software packages with a focus on spotting vulnerabilities. Discuss user behaviour when using computational devices to spot areas of weakness in systems Understand the way that data is managed and shared on a network. 	<p>BTEC L3 Computing</p> <p>You will learn to:</p> <ul style="list-style-type: none"> Use computer forensics to protect networks against invasion. Write computer programs for a range of scenarios. Develop an understanding of using programmable devices and controllers. Plan and manage cyber security projects. Understand how computer systems are developed and managed. Analyse the use of computer systems and learn to identify potential risks. 	<p>Cambridge Technicals in IT</p> <p>You will learn to:</p> <ul style="list-style-type: none"> Develop advanced networking skills using industry standard network analysis software. Understand what is meant by cyber security. Analyse the issues surrounding cyber security in society Develop a skills set of measures that can be used to protect against cyber security. Manage cyber security incidents on a local, national and global scale. 	<ul style="list-style-type: none"> Apply your knowledge of cyber security to our employer projects. Use state of the art IT equipment including our Security Operations Centre. Meet and develop relationships with cyber security professionals. Go on visits to cyber security companies. Listen to keynote speeches from industry experts.
18+	<p>Apprenticeships</p> <p>We will give you access to our apprenticeship programme that will provide you with all of the skills you need to get the right apprenticeship for you. Our employer partners will coach you in how to interview well, and they will work with you throughout the two years to help you build the skill-set they are looking for.</p>	<p>University</p> <p>We have a strong UCAS process that focusses on providing you with the best university courses available. 88% of our students who leave for University go on to study a STEM based course, with many studying courses related to computer science and cyber security.</p>	<p>Employment</p> <p>Our range of employer partners are regular visitors to the UTC. You will have a chance to speak with them, get interviewed by them, demonstrate your work and build relationships so that when they advertise of a position in cyber security, you will be front of the queue.</p>	<ul style="list-style-type: none"> Enter national and international cyber security competitions. Complete a Palo Alto firewall qualification. Take part in cyber security themed enrichment sessions.

Our cyber security employer partners include

