

UTC Sheffield Olympic Legacy Park Computing Pathway



Year 9-11

Course/ Qualification	Subject/Content	Activities	Progression/Careers
<ul style="list-style-type: none"> • Palo Alto Cyber Security • Industry led projects 	<ul style="list-style-type: none"> • Cyber Threats, Techniques & Types • Malware & WI-FI Threats • Current Employer requirements in a range of Computing specialisms 	<ul style="list-style-type: none"> • Technical briefings, Labs • Industry talks, Project development 	<p>The successful completion of these qualifications allow students to continue studies in higher education, either in the form of A levels or Vocational based courses. Some students choose to start employer lead apprenticeships, where students can learn vital skills in the workplace whilst still having some academic education, such as completing qualifications relating to the work placement, where students would be studying in a classroom environment once a week.</p>
<ul style="list-style-type: none"> • NCFE Interactive Media 	<ul style="list-style-type: none"> • Systems Life Cycle • Web development 	<ul style="list-style-type: none"> • Immersive Labs, industry talks, technical briefings • Employer led projects 	
<ul style="list-style-type: none"> • GCSE Computing 	<ul style="list-style-type: none"> • Algorithms • Legal and regulatory • Networking 	<ul style="list-style-type: none"> • Immersive Labs 	
<ul style="list-style-type: none"> • Extracurricular 	<ul style="list-style-type: none"> • Enrichment 	<ul style="list-style-type: none"> • Immersive Labs, industry talks, technical briefings 	
<ul style="list-style-type: none"> • Extracurricular 	<ul style="list-style-type: none"> • Challenges 	<ul style="list-style-type: none"> • Cyber Discovery • Cyber Centurion 	



Post 16

Progression/Careers

Course/ Qualification	Subject/Content	Activities
<ul style="list-style-type: none"> • A level Computing 	<ul style="list-style-type: none"> • Computer Architecture • Operating Systems • Software Engineering 	<ul style="list-style-type: none"> • Immersive Labs • Employer led live projects
<ul style="list-style-type: none"> • OCR Technical Diploma in IT • Specialist pathways (See below) 	<ul style="list-style-type: none"> • Cyber security • Internet of Everything • Big Data analytics 	<ul style="list-style-type: none"> • Palo Alto • Immersive Labs • Employer led live projects
<ul style="list-style-type: none"> • Digital Technology Practitioner 	<ul style="list-style-type: none"> • Virtual & Augmented reality • Systems Analysis & Design 	<ul style="list-style-type: none"> • Employer led live projects • Industry talks, technical briefings
<ul style="list-style-type: none"> • Application Developer 	<ul style="list-style-type: none"> • Web Design & Prototyping • Mobile Technology 	<ul style="list-style-type: none"> • Employer led live projects • Industry talks, technical briefings
<ul style="list-style-type: none"> • Cyber EPQ 	<ul style="list-style-type: none"> • Research project on a cyber theme 	<ul style="list-style-type: none"> • Mentored by Deloitte / Royal Holloway University London
<ul style="list-style-type: none"> • Extracurricular 	<ul style="list-style-type: none"> • Enrichment 	<ul style="list-style-type: none"> • Immersive Labs, industry talks, technical briefings
<ul style="list-style-type: none"> • Extracurricular 	<ul style="list-style-type: none"> • Challenges 	<ul style="list-style-type: none"> • Cyber Discovery • Cyber Centurion

These qualifications open the door to further study in all areas of Computer Science at degree level and beyond. An increasingly exponential demand for staff in the many disciplines of Computing means there is a constant stream of opportunities for Jobs, apprenticeships and degree apprenticeships in all areas of industry.

As well as working for a huge array of industries, students have gone onto create startup businesses, having acquired value skills in computing disciplines, as well as possessing logical thinking skills and excellent analytical ability. Successful digital startups tend to go onto achieve lucrative deals with high profit margins. Students have a variety of jobs to choose from including:

- Application Analyst
- Games Developer
- Cyber Security Analyst
- Information Systems Manager
- IT Consultant
- Software Engineer
- Web Developer
- Database Administrator
- Forensic Computer Analyst
- IT Sales Professional
- Network Engineer

This list is not exhaustive and as can be seen not only is there such a large variety of careers to choose from but new careers emerge all the time as new areas develops such as Robotic and Artificial Intelligence.

