



Barr's Hill School
Building Brighter Futures

President Kennedy School

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STOKE PARK
SCHOOL



Information Technology

At President Kennedy School we are passionate about the subject of IT and developing a real love of the subject beyond Post 16. Part of our offer is to ensure students get real business experience to enable them to apply their knowledge.

Teachers are highly skilled and committed to ensuring that opportunities are offered both in and out of the classroom.

Entry Requirements

Entry requirements for this BTEC Level 3 qualification are 5 grade 4's at GCSE including English and Maths.

Topics covered

Core Content:

Unit 1 Information Technology Systems
Unit 2 Creating Systems to Manage Information
Unit 3 Using Social Media in Business
Unit 6 Website Development

Skills you will develop on the course

Students will develop a wide variety of skills including but not limited to:

- Research
- Presentation and communication
- Team working
- Critical thinking
- Data analysis

Assessment

The course is assessed through a variety of methods including coursework, controlled assessments and exams.

Educational trips, visits and wider experiences

The course offers an in depth introduction to the IT world. It is designed for students who are interested in an introduction to the study of creating IT systems to manage and share information alongside other fields of study, with a view to progressing to a wide range of higher education courses, not necessarily in IT. It supports progression to higher education, including University and degree apprenticeships, so an interest in studying these subjects Post 18 is ideal.

What type of students will do well on this course?

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For more information contact:

Mrs Matharu - Leader of I.T
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Post-School Progression Opportunities

University	Entry requirements	Other similar courses offered
University of Warwick Computer ScienceBSc (Hons)	152 UCAS points	Artificial Intelligence Cyber Security Computer Science with Mathematics
Aston University Cyber Security BSc (Hons)	DDD	Forensic Analyst Threat Analyst
University of Westminster Computer Games Development with Placement Year – BSc(Hons)	DDM	Object-orientated design Programming development
Oxford Brookes University Information Technology for Business BSc (Hons)	DDD	Business and Finance Education and IT Information Technology Management
Coventry University Ethical Hacking (with a Year in Industry) BSc (Hons)	DDM	Animation Software Artificial Intelligence Software development

Career Opportunities

Software Developer

What would I do?

- Producing clean, efficient code based on specifications
- Testing and deploying programs and systems
- Fixing and improving existing software
- Work with developers to design algorithms and flowcharts
- Produce clean, efficient code based on specifications
- Integrate software components and third-party programs
- Verify and deploy programs and systems
- Troubleshoot, debug and upgrade existing software
- Gather and evaluate user feedback
- Recommend and execute improvements
- Create technical documentation for reference and reporting

Salary: Starting: £39,943

Routes in: With experience, you could progress to senior development manager, and executive level positions.

Forensic Computer Analyst

What would I do?

- Secure a system or device so it can't be tampered with
- Use a range of forensic tools and software to extract and analyse data
- Recover damaged, deleted or access hidden, protected or encrypted files
- Unlock digital images that are locked to hide the identity of a place or person
- Examine data from mobile phones and satellite navigation systems to trace people or places
- Collect information and evidence in a legally admissible way
- Write technical reports based on your findings and, if required, give evidence in court as an expert witness
- Present findings of on-going incidents to other members in the investigation team, law enforcement agencies and clients
- Keep up to date with evolving cybercrime methods and developments within the digital forensics field
- Undergo security checks and vetting procedures
- Work to relevant ISO accreditations.

Salary: Starting: £ 40,000

Routes in: With experience, you could progress to a senior analyst role and head of security.

IT Consultant

What would I do?

- Work with clients to determine requirements and define the scope of a project
- Plan timescales and the resources needed
- Clarify a client's system specifications, understand their work practices and the nature of their business
- Travel to customer sites•liaise with staff at all levels of a client organisation
- Define software, hardware and network requirements
- Analyse IT requirements within companies and give independent and objective advice on the use of IT
- Develop agreed solutions and implement new systems
- Present solutions in written or oral reports
- Help clients with change-management activities
- Purchase systems where appropriate
- Design, test, install and monitor new systems
- Prepare documentation and present progress reports to customers
- Organise training for users and other consultants
- Be involved in sales and support, and where appropriate, maintain contact with client organisations
- Identify potential clients and build and maintain contacts.

Salary: Starting: £82,299

Routes in: You could also work as an IT consultant contracting.