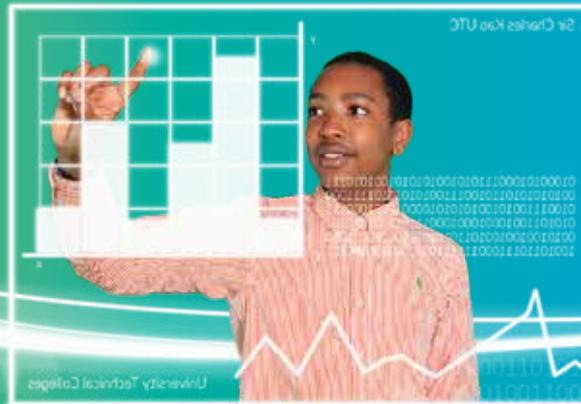




Sir Charles Kao UTC



University
Technical
Colleges®



A NEW ERA OF EDUCATION FOR 14-19 YEAR OLDS

“Extraordinary, not because we say we are, but because we work at it.”

Everyone has a fabulous future ahead of them if they get the right support and the right guidance at the right time. At the moment you are facing some tough choices about what direction your future will take and that’s why I’d like to introduce to you Sir Charles Kao UTC: a visionary and ground-breaking place of learning that will offer you an incredible and inspiring journey.

Our curriculum involves a very strong input from our Sponsors and the Challenge Projects they offer bring learning in Computer Science, Maths, Engineering, Biology, Chemistry and Physics alive. All of our Partners and Sponsors work closely with our students to ensure that they are fit for the great opportunities that are out there in our specialist fields. Our high expectations of professionalism for all have ensured that our young people are best placed to make progress onto the next stage of their lives whatever their ambition may be.

If you enjoy learning through doing and want to benefit from the latest technology, in an environment that feels more like being at work than school and surrounded by like minded individuals who are passionate about learning and who will work at being extraordinary, then Sir Charles Kao UTC could be for you. I look forward to you joining us.



Michael McKeaveney, Principal



“

I am unable to recommend the UTC highly enough. The other parents I know all agree that the UTC was the best move for their children and not one regrets moving from their previous schools.

”



Rt Hon Robert Halfon MP Visiting the UTC

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WHAT IS A UTC?

University Technical Colleges are a new concept in education. They offer 14-19 year olds the opportunity to take a highly regarded, full time, technically-orientated course of study. By 2017, there will be over 50 UTCs all over England with more than 30,000 students experiencing this new education pathway.

UTCs are equipped to the highest standard, are sponsored by a university and by businesses and offer clear progression routes to university or employment. These partners have input in all aspects of academic life from helping to develop and deliver the curriculum to providing internships for students.

A UTC will focus on one or two technical specialisms that aim to reduce a skills gap in an area. This ensures that students who study at a University Technical College are well equipped and well adapted for the jobs of the future.

A man with dark hair and a beard, wearing a dark suit jacket, a white shirt, and a dark tie, stands against a blue background with glowing white light trails. He is holding a white rectangular sign with both hands. The sign contains text about his aspirations for university and CAD/CAM design.

I aspire to go to university
to study CAD/CAM design
to gain the skills for a
career in architectural
engineering.

ABOUT OUR UTC

Sir Charles Kao UTC opened in September 2014, based in a brand-new multi-million pound building at the heart of the Harlow College campus. We offer students entering Year 10 and 12 the opportunity to combine academic and technical learning through the specialisms Medical Technology (6) and Smart Environments (7).

Through working closely with a number of local and national employers (12), we ensure high quality academic standards and a dynamic and inspiring technical curriculum, unparalleled in this area.

WHO IS SIR CHARLES KAO?

Sir Charles K. Kao is known as the 'Father of Fibre Optics'. He is a Nobel Prize winning physicist and electrical engineer who pioneered the development of fibre optics while working in the Standard Telecommunication Laboratories in Harlow. His work sparked much of the technology we use for telephone and data communication today.



MEDICAL TECHNOLOGY

Medical Technology is a growing, lucrative and sought-after industry that affects the lives of everyone. It improves, preserves and extends patients' lives.

You will explore the Medical Technology industry from the design and manufacture of medical devices through the maintenance of specialist medical equipment in hospitals, doctors' surgeries and in the home, and the application of computer science in remote monitoring and diagnosis. The breadth of the sector is wide, covering areas like molecular biology, engineering and even government.

Through studying Medical Technology, you will experience the practical application and relevance of your GCSEs and Sixth Form pathways. Our students have the opportunity to design and create their own devices in our design and manufacturing centre. Our students also have the opportunity to visit local employers and hospitals to see and experience this fast growing and life changing sector.

A young woman with long blonde hair, wearing a black cardigan over a white top and black trousers, stands against a purple background. She is holding a white rectangular sign with black text. The sign reads: "I want to be a midwife so the medical technology specialism and the key focus on science subjects will give me a head start towards this goal."

I want to be a midwife so the medical technology specialism and the key focus on science subjects will give me a head start towards this goal.

SMART ENVIRONMENTS

Today's buildings need to be fit for purpose, environmentally friendly, energy efficient, easily maintained and also adaptable and intuitive to the needs of the users and their day-to-day needs, whether it is a small home, a large regional hospital or a school.

Studying Smart Environments alongside your GCSE and Sixth Form pathways will lead you to understand, develop and interact with new technologies that are embedded in the everyday objects of our lives. The possibilities and applications that your studies could lead to are multiple and varied, whether it is developing home entertainment and gaming systems, enhancing the lives of elderly people in their homes or setting up optimum environments for scientific research.



JOIN US FOR YEAR 10

When you join us for Year 10, you will study towards GCSE qualifications in the core subjects, English, Maths and Science. You will also study additional GCSEs and create your own individual study programme. The subjects you will study include:

* Diploma in Engineering * German * History * Enterprise Education * Physical Education * Spanish * Careers Education * Geography * French * Physics * Mandarin * Religious Education * Computing * Citizenship *

Our students will also study towards the UTC Graduate Scheme, ensuring that all our learners graduate with a range of qualifications and transferable skills that will enable them to progress to employment, apprenticeships or university.



Creativity doesn't just happen in arts subjects and I recognised this. Coming to Sir Charles Kao UTC has enabled me to be creative in all subjects - even in maths!

“

If you attend here, the freedom to approach your work and projects will speak for itself. Sir Charles Kao UTC offers an experience like no other.

”

JOIN US FOR YEAR 12

We offer a number of routes that can be followed from Year 12:

The Technical Experience

Students will study for an Extended Diploma in Engineering or Computing

The Blended Experience

Students can opt for one of the Technical Qualifications and a combination of GCE A Levels.

To join us for Year 12 you must obtain 8 A* - C Grades at GCSE level including English, Maths and Science. To study at A Level you must obtain a B in the subject you wish to study. Our Year 12 students will also undertake the UTC Graduate scheme.

The Traditional Experience

Students will study for GCE A Level Qualifications from the following list of subjects:

* Physics * Chemistry * Biology *
Mathematics * Further Mathematics *
Product Design * Computing *





A NEW ERA OF EDUCATION

We believe that everyone no matter their ethnicity, gender or ability has the right to succeed in life and are committed to providing opportunities for all.

If you are looking for a new and exciting opportunity to develop your interest in Science, Engineering and Computing and want to explore the growing career opportunities in Medical Technology and Smart Environments, then SCK UTC is a gateway to your future.



54,600

life science jobs in the London, Stansted, Cambridge Corridor by 2020*



4,811

the average difference in starting salary between technology graduates and all graduates*



830,000

qualified engineers needed in the UK by 2020*

“We are delighted with the progress our daughter is making at the UTC. She is happy, settled and keen to get to school every day. As parents, we know we made the right decision to secure a place at Sir Charles Kao UTC.”



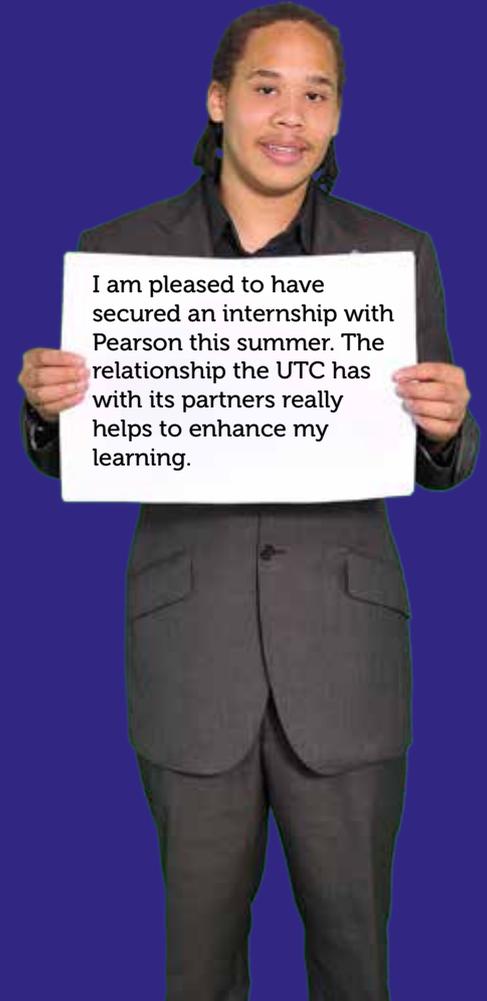
My passion is computer science and I wish to study at MIT in the future. Sir Charles Kao UTC offers me fantastic opportunities to develop a better understanding of computers and how they work.

* Statistics retrieved from Engineering UK, LSCC and House of Commons surveys

OUR PARTNERS

The UTC is sponsored by a number of local and national employers including Anglia Ruskin University, Johnson Controls, Pearson Education, Raytheon and GSK. This ensures not only high quality academic standards but also a dynamic and inspiring technical curriculum using industrial research and design projects.

Our students will have the opportunity to work closely with our employers within and outside of the UTC to experience first-hand life within those companies.



I am pleased to have secured an internship with Pearson this summer. The relationship the UTC has with its partners really helps to enhance my learning.



Johnson Controls in the UTC



UTC students on a visit to GSK

OUR FACILITIES

Our Sponsors have helped to design a building that provides a first class working environment that is both a modern workplace and a purpose built learning centre.

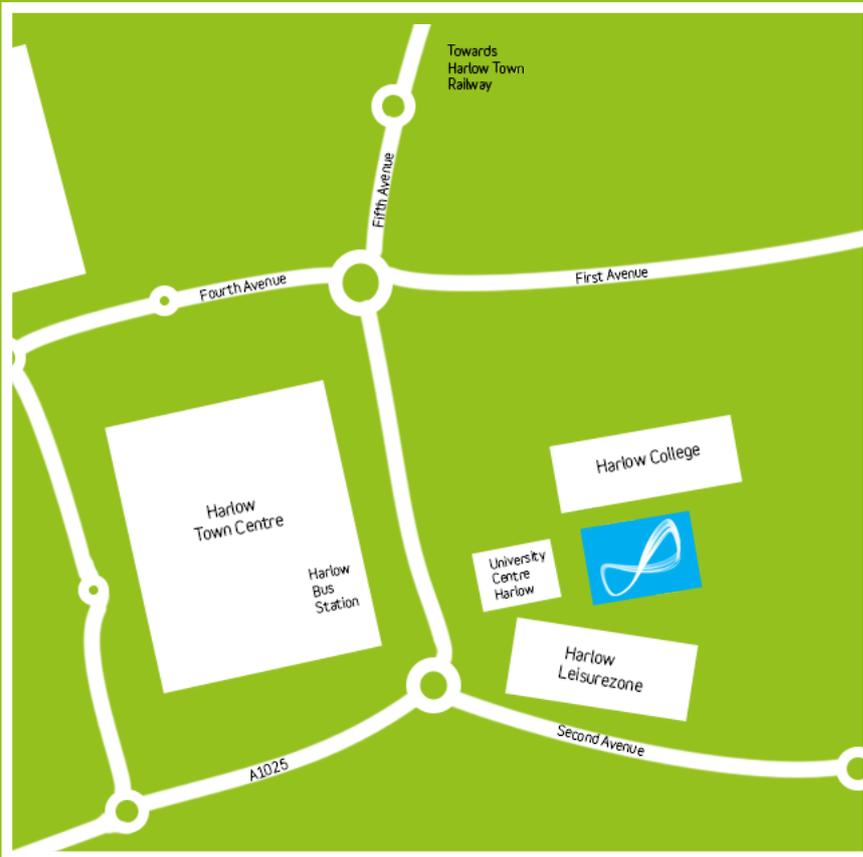
With a variety of learning spaces, design workshops and science laboratories, our multi-million pound facility encourages innovative learning, teamwork and creativity. Set over three floors, SCK UTC has large, bright spaces where students study and meet and open-plan learning areas.

We also have two key specialist areas - the Smart Box and the Intelligent Flat. The Box is a unique resource that mirrors the building management and infrastructure of smart environments. Our Flat is a studio apartment, networked and fitted with sensors and data capture, providing opportunities to explore how technology can develop our home life.



FIND US

You will find Sir Charles Kao UTC right at the heart of Harlow, based on the Harlow College Campus.



By Bus

We are a 5 minute walk from Harlow Bus Station, linking us to all areas of the town. For students in the Epping, Waltham Abbey and Loughton areas we provide a UTC bus at a reasonable cost per week.

By Car

We are conveniently located near the M11 motorway between London and Cambridge and close to the A414 allowing strong links from most areas of Hertfordshire and Essex.

By Train

We are close to Harlow Town Railway Station (20 mins walk or 5 mins bus), allowing journeys from stations such as Bishops Stortford (11 mins), Stansted (15 mins) and London Liverpool Street (30 mins).

APPLY NOW

We are now accepting applications for Year 10 and Year 12 entry, but places are limited. Please fill in an application form and return it to the following postal or email address:

Sir Charles Kao UTC
Velizy Avenue
Harlow
Essex
CM20 3EZ

enquiries@sckutc.org.uk

You can also telephone the admissions office on 01279 444374

The closing date for applications for 2016 entry is 26th February 2016. Letters will be sent out on 1st March 2016 informing you the outcome of your application.

“

I would encourage everyone to move to the UTC as it provides so many more experiences for us. We have so much more freedom to adapt our learning than in other schools and the Sponsors give us better opportunities to succeed.

”



Sir Charles Kao UTC



www.sircharleskaoutc.com



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[SirCharlesKao](https://twitter.com/SirCharlesKao)



enquiries@sckutc.org.uk

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