

**UTC SHEFFIELD**  
**OLYMPIC LEGACY PARK**  
**PROSPECTUS 2019/20**

Do you want  
more than just  
qualifications?  
Are you thinking  
ahead to your  
career?

**Join us in Year 9 or Year  
12 to get a head start.**

*UTCs are government-funded  
academies offering careers-focused  
education for 13-19 year-olds, working  
with employers and universities.*





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# Introduction from Sarah Clark, Principal

**Welcome to UTC Sheffield Olympic Legacy Park campus. I am delighted to be leading this exceptional centre for technical and academic education.**

Our flagship £10-million-pound building is located on the visionary Olympic Legacy Park and provides a unique experience for students to study adjacent to elite athletes and professional sports people. At the UTC itself, we benefit from cutting-edge facilities such as a health and development suite, a fitness suite, a rooftop science terrace and a range of research and computing labs.



The specialisms of Health Sciences, Sport Science and Computing have been chosen specifically to address key skills shortages, not just in the UK but globally, and will give students an excellent route into employment or higher education. They also complement each other to prepare our students for future jobs in the rapidly growing health technology sector where Health Sciences, Sport Science and Computing combine to create new developments supporting health and wellbeing and combatting major illnesses.

I would like to thank our employer partners who have worked with me to design the innovative curriculum, especially both universities and Sheffield Teaching Hospitals. The involvement of employers in every aspect of the UTC – from curriculum, to mentoring, to work experience, to governance – is what makes the UTC effective, and we are fortunate to have such good support.

Now that we are established I am looking forward to taking the UTC Sheffield Olympic Legacy Park on the next phase of its journey with the support of staff, students and stakeholders. I am confident that we will provide the high quality, careers-focused education and outstanding student experience that will help our students to thrive.





# Specialising in Computing, Health Sciences and Sport Science

**This purpose-built second Sheffield UTC is located on the £55m Olympic Legacy Park (OLP), home to world class professional sporting facilities and Sheffield Hallam University's Advanced Wellbeing Research Centre.**

The OLP provides a unique environment for learning, unrivalled anywhere else in the UK, offering opportunity to link to cutting-edge research, innovation and sports activities.

These are just some of the industry-standard facilities you will enjoy:

- Activity Studio with a range of specialist equipment
- Health and Development Suite including a flexible ward set-up, a child development area and a facility for an operational ambulance
- Sports Sciences laboratory for detailed assessment of individual performance
- 3G professional standard pitch and 100m running track with data capture facilities
- Fitness Suite
- Security Operations Centre with real-life threat monitoring
- Virtual Reality testing research lab
- User Experience (UX) research lab, Raspberry Pi lab and Robotics lab
- Rooftop science terrace



# Specialising in Computing

**Are you full of ideas? Do you enjoy using technology to make and create? At the UTC you could bring your ideas to life in all sorts of ways – coding, playing with ‘big data’ to find hidden patterns and trends, detecting cyber threats, as well as making apps and digital products that are really easy for people to use.**



Industry and employers are becoming increasingly dependent on these skills as technology is now such a big factor in almost every walk of life. In fact, the digital technology sector is predicted to grow faster than any other by 2020, and not just in London.

The North of England has become a centre of excellence for bright ideas and new companies using digital technology. The two major universities in Sheffield City Region are undertaking groundbreaking research using digital technology and data – especially in the area of health and sport. All of this technology-based work and research is driving real change in how we live, work and have fun. You could be part of that.

**Find out more: [utcsheffield.org.uk/computing](https://utcsheffield.org.uk/computing)**





## Employer-led projects

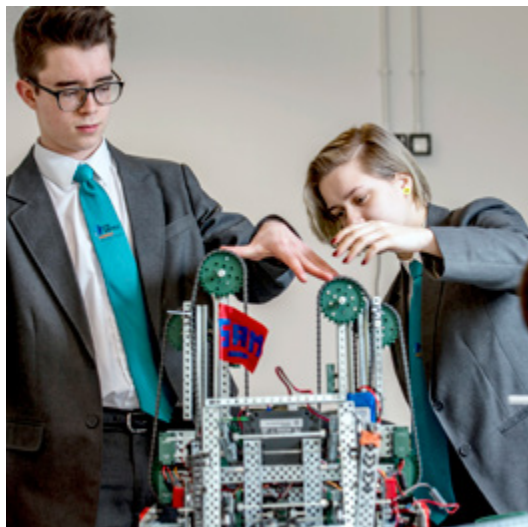
You will undertake projects set by employers from all sorts of sectors. For example, students have worked with Fujitsu on cyber security, learnt Agile project management techniques with Sky, and designed an Augmented Reality app for 'The Children's Hospital Charity' in Sheffield. Not to mention projects for the Rugby Football League and the Army Cadet Force.

**At KS4**, you will study the **Cambridge National Certificate in IT** along with **GCSE Computer Science** and other GCSEs.

**At KS5**, you will study **Level 3 OCR Cambridge Technicals in IT** which can be studied in isolation or combined with up to three A Levels.

See full additional A Level and GCSE options in the KS4 and KS5 Curriculum section on page 22.





## VEX Robotics

**VEX Robotics are regularly used in lessons and projects. Students build and code robots in teams and individually to tackle different challenges.**

It's fun and at the same time a great way of learning theory that is important for coursework. In 2018, three teams from the UTC competed at the VEX Robotics regional competition, showcasing their advanced programming skills. Year 12 scooped the Tournament Champions title and a place at the national finals with a score that beat national records to date.

## Security Operations Centre

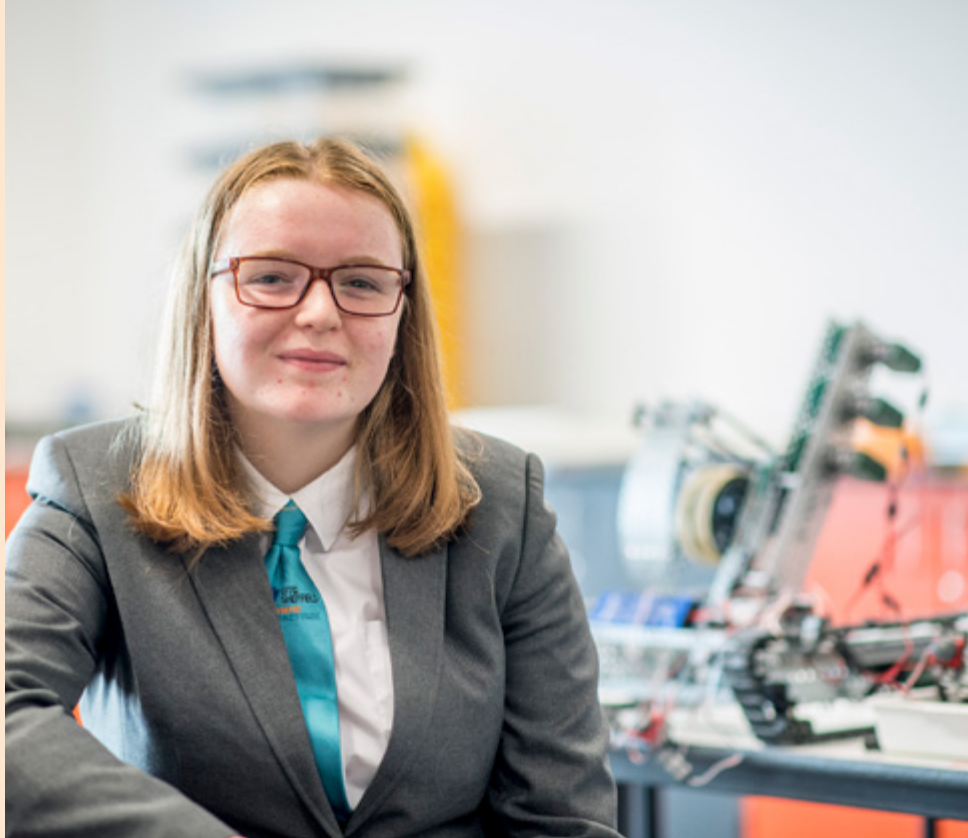
**Cyber security is a growing industry with increased threats at home and abroad.**

The Security Operations Centre at the UTC is a direct simulation of what's used in the cyber security industry. Its high tech equipment includes a threat wall powered by major cyber security providers, which shows live attacks and data from around the world. The lab also has a 'dirty network', plus the latest software to detect, analyse and test cyber security threats and viruses.





**Y13 Computing student Cerys is currently studying A Levels in Further Maths and Physics alongside her Computing Technical and has already passed her Maths A Level early whilst at UTC Sheffield Olympic Legacy Park.**



She started at UTC Sheffield at the City Centre campus for GCSE and moved to the Olympic Legacy Park campus to study Computing as she felt it complemented her A Level choices and was something different:

“I really liked the idea of Computing as it fits in nicely with Maths and Physics and you always hear about how IT will be important in the future. The Computing specialism is similar to some of the first-year university courses for Computer Science so it’s a great way to get one step ahead. I’ve since joined the robotics team and made lots of friends out of that too.”

Speaking of her time at UTC Sheffield so far, Cerys said: “I’ve enjoyed working together with friends and that you are encouraged to take part in things outside your comfort zone. We all have similar interests so the UTC provides an easy way to get to know people.”

One of the perks of being on the robotics team is that students take part in the annual world VEX Robotics competition: “The competition changes every year. We did well last year, but each year presents a new challenge. It’s really interesting to see how our team has grown - this year we are a lot more confident and organised in

our roles. Last year we got a place in the nationals, but the snowy weather meant we couldn’t attend. This year we are hoping to make it to the nationals again and hopefully to the worlds!”

On completion of her studies, Cerys has ambitions to study Maths at University and is feeling confident about her future: “The employer projects we do are really helpful. I’ve been looking into interviews recently and found the experience here has really helped to show that I have professional skills despite never having had a job before.”

# Meet our Computing Employer Partner, Razor

**Razor is a fast-growing digital agency based in the heart of Sheffield.**

As digital experts, Razor helps businesses to get the best from their technology, ensuring that it's efficient, effective and perfectly fit to meet their needs and objectives.

The company has worked alongside clients from a range of industries, including retail, travel, ticketing and utilities. Recently, staff at Razor have been sharing their expertise, setting real-life business challenges and mentoring computing students at UTC Sheffield Olympic Legacy Park.

“One task was all about UX – User Experience – where we briefed students on creating a ‘tech radar’. As a technology company, we’re continually trialling, testing, reviewing, adopting, and sometimes rejecting new and current technologies. This is vital so that we have a broad view of the tools we can use to benefit our clients. To help us keep track of emerging technologies, or ones we have used or tested previously, we use a ‘tech radar’ system.

“This task really helped the students to learn more about different technologies and how to evaluate their effectiveness and usefulness. As well as this, it taught them about important client-facing skills such as managing expectations, identifying client wants and needs, establishing set objectives and budgeting.

**Ellie Mosely**, Project Manager

These are some of the employers  
you will be working with:

**RAZOR**  
The Technology Works

**SUMO**  
DIGITAL

**resolve.**  
we are i.t

**BETTER**  
WITH DATA

**mundojumbo**

**hive<sup>IT</sup>**



**sheffield technology**  
parks

# Meet Head of Computing, Colin Smith

**With years of experience in the computing industry, Colin Smith discovered a love for teaching when training software developers to extend their skills.**



Colin originally studied computing at university then went into software development, progressing to senior developer and development manager. In 2007, he set up his own business providing development, search engine optimisation and marketing. Over the years, he learnt about many different roles in the digital technology sector and acquired a set of highly regarded professional qualifications from the likes of Adobe, Cisco and Microsoft.

All this experience and knowledge he can now bring to bear at the UTC, as he explains, “Within IT there are often silos, you’re a developer, or an analyst, or a hardware engineer, but because of the different situations in which

I’ve worked I’ve done all those things. That means I can give our students a broader based perspective about the opportunities that are available and what skills they’ll need.”

Colin moved to the UTC from teaching Computer Science at another school in order to be able to teach students a more relevant, industry-focused curriculum: “At the UTC, we deliver technical as well as academic qualifications working with industry employers, but above all we focus on where students want to go. We have students who want to be software engineers, systems analysts and project managers. We teach them the skills they’ll need to become an

industry professional. Communication skills, working as part of a team, having a good grounding in technical knowledge but also having experience of applying that technical knowledge. We don’t just teach theory of networking, for example, we actually put computers together.”

Colin is proud of the way the computing students are flourishing at the UTC, making the most of the added opportunities: “The students arrive thinking maybe it’s another school or college, but they get access to all the specialist equipment and all the enrichment activities like robotics and cyber security – they really love it.”



# Specialising in Health Sciences

**Do you enjoy science and technology? Are you curious about how the human body works and looking to work in the health sector? Do you want to solve problems and help to make a difference?**

Health Sciences at the UTC Olympic Legacy Park will provide you with the knowledge and skills to work across numerous vocational areas of the healthcare and wellbeing sectors.

Health Sciences looks at new ways to prevent as well as treat illness and help people to lead healthier lives. Breakthroughs in medicine and health are happening every day. As a student at the UTC you will look at both the application of healthcare and the scientific research behind it.

Sheffield City Region hosts a growing number of healthcare and wellbeing companies and is also a hub for leading research and cutting-edge technologies in health, with national centres of excellence led by both universities, alongside elite sporting bodies such as the English Institute of Sport.



**Find out more: [utcsheffield.org.uk/health](https://utcsheffield.org.uk/health)**



## Employer-led projects

You could work on the Patients as Educators project with the University of Sheffield. During the project you will get to meet real patients and learn about their condition, treatment plan and experience of care. Or you could examine profiling and eyewitness testimony as part of a Forensic Psychology day at Sheffield Hallam University. Or you might be working with paramedics from Sheffield Teaching Hospitals.

**At KS4**, you will study a **Level 2 OCR Cambridge National in Health** alongside GCSEs.

**At KS5**, you will study **Level 3 OCR Cambridge Technicals in Health** which can be studied in isolation or combined with up to three **A Levels**.

See full additional A Level and GCSE options in the KS4 and KS5 Curriculum section on page 22.





## Syzmon was one of the first students to complete his GCSEs at UTC Sheffield Olympic Legacy Park.

Syzmon sat 9 GCSEs alongside his technical specialism in Health Sciences, achieving a grade 7 (equivalent to an A) or above in all. In two GCSE subjects, he achieved grade 9s (equivalent to a top A\*), which only a very small percentage of students achieved around the country. Syzmon also gained a Distinction\* in his Cambridge National in Health.

He said: “UTC was a fresh start, and a great opportunity to specialise in Health Sciences. I’ve particularly enjoyed working on the Patients as Educators project in partnership with the University of Sheffield.”

He added: “I’m really pleased with my results, especially my Maths and Science.”

The highly ambitious sixteen-year-old has his sights set on the University of Oxford to study Medicine.

He said: “I think Medicine will be a challenge, but I really like helping people and I think it’ll be interesting. The UTC has definitely prepared me to go on to study Medicine, even just experiencing the health facilities here is great.”



# Meet our Health Sciences Employer Partner, Quality Context



**Quality Context provides services to pharmaceutical and healthcare businesses worldwide. The company has a specially equipped and regulated laboratory which provides a range of analytical testing services for pharmaceutical and healthcare products. It also packages and distributes medicinal products.**

Founding Director, Kate Krachai is an employer link for Science. That means supporting the science team in the UTC with advice and employer connections. Kate also helps to mentor students, providing careers information.

Quality Context staff visit the UTC campus to deliver talks about careers available in science and support demonstrations on titration, a laboratory method of chemical analysis which features in the GCSE curriculum. Students from the UTC also have the opportunity to tour lab facilities at Quality Context and see what the company does in action.

“Last year, we offered a work experience placement for a UTC student, Szymon, who wants to pursue a career in medicine. He was able to work with the lab technicians supporting the set up and use of machinery in the laboratory. It was great to see Szymon come out of his shell and build his confidence as the placement progressed and to see how his skills developed.

“In the future we’ll need to recruit more scientists and we think it’s really important to expose young people to the opportunities available in science. By working with the UTC, we are helping to do this.”

**Becky Wilsdon**, Marketing Executive

These are some of the employers you will be working with:



Swann-Morton®

**NHS**  
Sheffield Teaching Hospitals  
NHS Foundation Trust



**Westfield**  
Health  
Harder working health cover



The  
University  
Of  
Sheffield.

**Sheffield  
Hallam  
University**

## What jobs are available in Health Sciences?

**Medical / Dentistry / Veterinary  
/ Pharmacy / Physiotherapy /  
Nursing / Paramedic / Midwifery**

**You can be one of the 1.6 million  
people that the NHS employs as one  
of the top five of the world's largest  
workforces!**

At the UTC you'll learn in world-class facilities that include a Health and Development Suite with a flexible ward set-up and a facility for an operational ambulance. You will:

- Study academic programmes which can include GCSE Triple Science and A Level Mathematics, Further Mathematics, Physics, Biology and Chemistry as well as the latest Cambridge Technical qualifications in Health Sciences
- Participate in real-life work projects which reflect the latest clinical practice
- Benefit from our links to sponsors such as the Sheffield Teaching Hospitals and local universities Sheffield Hallam and the University of Sheffield
- Ensure that your application to university is competitive through high quality support to secure relevant work experience, as well as advice and guidance regarding interviews and admissions tests



## Meet Head of Health Sciences and Sport Science, Seana Sleaford

**Seana Sleaford leads both the Health Sciences and Sport Science areas at UTC Sheffield Olympic Legacy Park and is passionate about the value of high quality vocational learning working with employers.**

Seana comments, “As a teacher at the UTC, I feel empowered to make the curriculum engaging and exciting including employers. Vocational learning is valued here. In some traditional schools, students who excel at vocational learning aren’t always valued in the same way as academic students, so when they come to a place that does value vocational learning, the impact is significant. Where young people are allowed to identify their strengths in practical learning and practical skills, that can be very powerful.”

Students at the UTC study a highly regarded OCR vocational qualification in Health alongside sciences at GCSE and A Level. Both the University of Sheffield and Sheffield Hallam University release staff and students to run masterclasses at the UTC, as do Sheffield Teaching Hospitals.

Seana feels this intensive work with health professionals is giving the UTC students a significant advantage when applying for further study: “Universities are asking questions at interview that our students can answer with

confidence because they’ve had the experience. This week one of our students had an unconditional offer for a children’s nursing course, which is one of the most competitive courses to get onto. Unconditional offers are very rare for professional degrees. That student received a lot of positive feedback about the experiences she’s had being part of the UTC. It’s the interactions with healthcare staff, meeting professionals, learning the vocabulary, seeing the clinical environments, which makes such a big difference.”



# Specialising in Sport Science

**Do you enjoy sport or sports science? Are you curious about how athletes' bodies work? Do you want to work alongside top athletes developing new ways to improve their performance? Or be an athlete yourself?**



Sport Science at UTC Sheffield Olympic Legacy Park will provide you with the knowledge and skills to work across numerous areas of the sports and wellbeing sectors.

Understanding how sport, exercise and lifestyle affects the body is the basis of Sport Science. Breakthroughs in sport designed initially to help elite athletes gain an edge are now being used to improve community health as well, and exercise medicine is a growing area of research and study.

Sheffield City Region hosts many healthcare technology companies and is also a hub for leading research in sport, health and wellbeing. Elite sports bodies such as The English Institute of Sport are based in the region, as well as national centres of excellence led by both universities in Sheffield, including the the Advanced Wellbeing Research Centre on the Olympic Legacy Park.

**Find out more: [utcsheffield.org.uk/sport](https://utcsheffield.org.uk/sport)**

**At KS4**, you will study a combination of Level 2 OCR Cambridge Nationals in both Health and Sport Science alongside GCSEs.

**At KS5**, you will study Level 3 OCR Cambridge Technicals in Sport and Physical Activity which can be studied in isolation or combined with up to three A Levels.

See full additional A Level and GCSE options in the KS4 and KS5 Curriculum section on page 22.



## Employer-led projects

You will work with athletes at all levels, including those at the top of their fields, to understand how performance of the human body can be improved through the application of science and technology. For example, you could be working with a professional sports person and their coach, understanding how they build strength when they are training, and then apply this learning to people who are managing chronic asthmatic conditions.



## Sixteen-year-old Sport Science student Sally is celebrating a successful set of GCSE results.

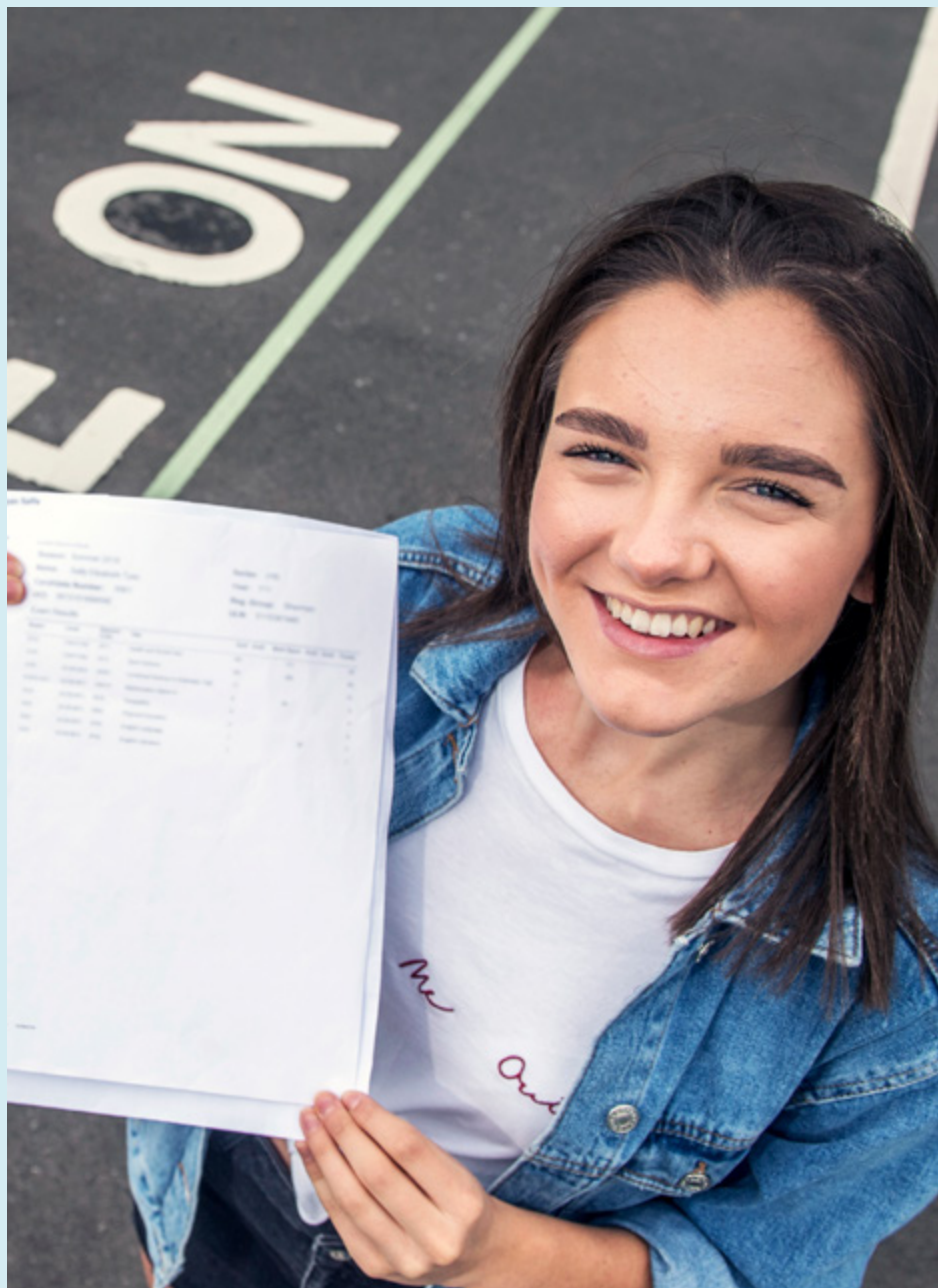
She said: "I'm really happy with my results. I'm really happy I've passed Maths, I've struggled with it in the past and UTC have been amazing, offering me extra help."

Sally sat a total of seven GCSEs, alongside her technical qualification, which is equivalent to two GCSEs, and achieved top grades.

She originally joined UTC after learning about the unique offer and the range of opportunities it opened up to work with employers and learn in a practical setting.

She said: "I chose UTC because I felt like I needed extra support and needed to be in a tight community. The UTC offered more opportunities and has opened doors in sport for me. It has allowed me to do something I enjoy at the same time as learning."

Sally is now looking forward to continuing her studies at UTC and will be studying Health Sciences alongside A Levels in English Literature and Biology. She hopes to pursue a career in teaching.





# Meet our Sport Science Partner, Sheffield United Community Foundation

“At the Sheffield United Community Foundation, we believe partnership work is vital in providing opportunities for young people to engage in meaningful work experience. We offer opportunities at the Foundation across five key areas: Education, Health & Wellbeing, Community Cohesion, Sports Participation and NCS (National Citizen Service).

“Working with the UTC helps us to prepare our future workforce, bridging the gap between education and employment. We know that helping young people understand how their skills can transfer into employment is important for their development.”

## **Chris Bailey**

Acting Head of Foundation  
Sheffield United Community Foundation

UTC Sheffield benefits from partners on the Olympic Legacy Park and nearby including English Institute of Sport and iceSheffield, soon to be joined by the Park Community Arena which will be home to Sheffield Sharks basketball team.

These are some of the employers you will be working with:



The  
University  
Of  
Sheffield.

**Sheffield  
Hallam  
University**



**The  
Sheffield  
College**

# KS4 Curriculum



**Our curriculum offer, including employer-led projects and enrichment activities, is designed to give students a well-rounded education to open up the best possible opportunities for future study and career progression.**

**Students joining UTC in Year 9 begin their Key Stage 4 studies straight away, studying a combination of GCSEs and a technical qualification in their chosen specialism.**

## Core GCSEs

- Mathematics
- English Language
- English Literature
- Sciences (Biology, Physics and Chemistry leading to GCSE combined or triple science)

Plus Computing students will study for the Cambridge National Certificate in IT.

Students will also have allocated lesson time for Careers Information, Advice and Guidance, Citizenship, PSHE (Personal, Social and Health Education), Sports and Physical Education, alongside time for independent study and enrichment activities.

## Optional GCSEs

Two GCSEs / equivalents from the following options:

- Computer Science
- Psychology
- Physical Education
- Child Care
- Geography
- Modern Foreign Language (MFL)

Taking the English Baccalaureate is an option for those that choose MFL and Geography.

# KS5 Curriculum

**At Key Stage 5 students will study a Level 3 technical qualification, which can be studied in isolation or combined with up to three A Levels, depending on each student's ambitions.**



## A Level Choices

- Biology
- Chemistry
- Computer Science
- English Literature
- Maths
- Further Maths (if you are taking Maths)
- Physics
- Psychology
- Level 3 Core Maths
- Level 3 Extended Project options
- GCSE English, Maths and Science resits

There are opportunities for students to choose A Levels available at both campuses. For advice please attend one of our open events.

Both UTC Sheffield campuses may also offer a Level 2 bridging-the-gap year at Post-16, which provides a step up to Level 3 qualifications.

**Please note**, the course offer for both KS4 and KS5 may be reviewed as part of the UTC's long-term commitment to securing the best outcomes for students.



# Employer-led learning

**Working with employers and universities is at the heart of everything we do at the UTC, providing students with real-life problem-solving challenges, mentoring and work experience.**

## Curriculum

You will participate in projects related to the world of work that have been designed by our employer and university partners in collaboration with our expert teaching staff, as well as benefitting from master classes and feedback on your work from top professionals.

## Mentoring

The chance to meet regularly with employers relevant to your interests and career aspirations is a key part of how the UTC will build your confidence and skills.

## Placements

Work experience at the UTC is all about matching your interests with specific employer and project opportunities, so that you gain a real insight into what it is like to work in the sector.

## Trips & Tours

You will visit a wide range of employer premises, including high profile companies and organisations, as well as participate in national competitions and events.





UTC students go on to study at a wide range of universities, including leading Russell Group universities such as Oxford and Cambridge, as well as high quality apprenticeships.

# Five Reasons to Choose UTC Sheffield

## 1 Excellent destinations

We are dedicated to developing the knowledge, confidence and skills that you require to progress successfully into a high quality career.

## 2 Employer-led learning

At UTC you will get regular interaction with employers through mentoring sessions, master classes and tailored work placements, helping you to develop industry knowledge and understand what skills you need to secure a job. You will be encouraged to take responsibility for your learning with regular time allocated for project work and independent study. You will find that you are treated like an adult but also given support where you need it.

## 3 Industry-standard facilities

We offer outstanding facilities and technology; many are industry-standard so you will be working with the same technology that is used in the workplace.

## 4 Academic and practical

You can be academic and practical, enjoying hands-on learning and at the same time gaining the academic qualifications you will need to go further in your career. By combining highly regarded technical qualifications with academic qualifications you will be able to keep all your options open and progress onto an apprenticeship, employment or university.

## 5 Focused, friendly community with strong support

Our students comment that the learning experience at the UTC is much more focused – students are there to learn because they have a passion for our specialisms. We are a friendly community where students say they make friends quickly, perhaps because they share interests in specialist subjects. Every student has a learning plan and there are learning managers as well as teachers who are dedicated to helping you reach your full potential.





# Interested in applying?



## Find out more at one of our open events and taster sessions

We offer a range of taster events and talks for both parents/ carers and potential students.

Please come along and meet with our Principal, Sarah Clark, and find out more about UTC Sheffield.

Full details of these events are available on our website:

**[www.utcsheffield.org.uk/events](http://www.utcsheffield.org.uk/events)**







**UTC Sheffield Olympic Legacy Park is  
part of The Sheffield UTC Academy Trust**

The Trust has a clear vision to prepare our students for high quality careers in major growth areas of the UK and global economies – Engineering & Advanced Manufacturing, Creative & Digital Industries, Computing, Health Sciences and the related area of Sports Science. We provide a rounded education to develop the professional, personal and technical skills that employers want.

All of our students achieve a set of qualifications endorsed by both our university and employer partners, enabling them to progress to top universities as well as high quality apprenticeships.

