



PROSPECTUS 2022-23

ENTER A WORLD OF NEW OPPORTUNITIES...

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BE INSPIRED

As you approach the beginning of GCSEs or post-16, you'll be facing some important choices about your learning. You'll know that getting these decisions right will set you on the path to a great career. We're really pleased that you're thinking of coming to UTC Swindon and taking advantage of the many opportunities we can offer you.

With us, you'll be able to follow your areas of interest in Engineering and Digital Technologies while studying technical qualifications, GCSEs, A Levels and developing invaluable practical and work-readiness skills from the best in the industry that will give you a competitive advantage. This is because UTC Swindon has the support of local, high profile industry and academic partners who help to shape the curriculum and work closely with our students.

We believe that students who attend UTC Swindon are given the best start in a variety of progression routes. Last year our students went on to university, an apprenticeship, a sponsored degree programme or employment.

UTC Swindon will offer you something different. And we expect you to want something different:

- **to follow your interest in Engineering or Digital Technologies while studying for your GCSEs or A Levels**
- **to embrace opportunities to work through challenges and projects set by our industry partners**
- **to want the best chance of moving into employment or further and higher education in your chosen field**

If you want to benefit from the latest technology, be in an environment that feels more like being at work than school, and benefit from our industry links, then UTC Swindon could be for you.

We hope our guide will inspire you to find out more about the great opportunities we have to offer at UTC Swindon and we would warmly welcome you to join us in September 2022.

Jon Oliver, Principal



WELCOME TO ACTIVATE LEARNING EDUCATION TRUST

Activate Learning Education Trust is a Multi Academy Trust (MAT) established by Activate Learning, which is run with the support of a number of industry and academic partners.

We transform lives through learning by providing exciting and innovative education for young people.

OUR VISION

Transforming lives through learning

OUR MISSION

To 'transform lives through learning' by igniting confidence, expanding opportunities, energising the community and generating prosperity. Through our Learning Philosophy and core values of empowerment, enterprise, connectedness and transformation, we will provide our students and staff with a safe and supportive environment in which to thrive.

OUR VALUES

Empowerment, enterprise, connectedness and transformation



Activate Learning Education Trust's core purpose is to deliver excellent teaching, learning and assessment and a high-quality learner experience, underpinned by high expectations and fostering high aspirations for all.

UTC Swindon provides a high quality technical education, co-created with employers, giving students a clear line of sight to work. Through the Learning Philosophy, students are able to fulfil their potential and develop into positive, motivated, employable young people when they leave education



Joanne Harper
CEO, Activate Learning Education Trust



OUR LEARNING PHILOSOPHY

At UTC Swindon, our approach to teaching and learning is driven by a distinctive Learning Philosophy that emphasises a Growth Mindset that prepares young people for the world of work and future success.

This philosophy has been developed by members of the Activate Learning group and recognises three essential elements for effective learning:

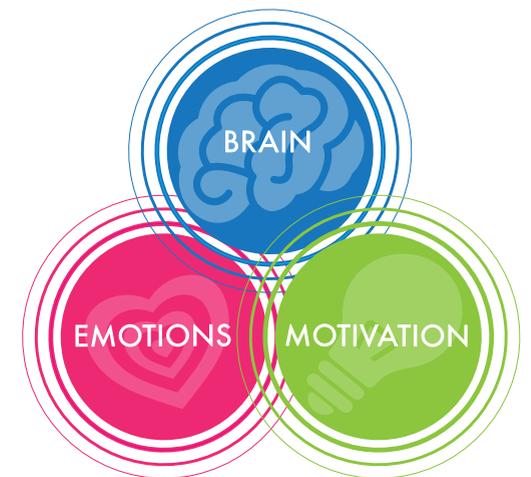
- **BRAIN** – our brains are capable of incredible things. From the study of neuroscience we know how the brain forms networks and how learning takes place when neurons connect. We know how to deepen these connections through ongoing practice and how to replace poor learning with good habits.
- **MOTIVATION** – while our brains may be capable of learning anything, we are only likely to use them if we are motivated to do so. Our approach to learning helps to demonstrate the relevance and impact of new skills and knowledge so that students maintain motivation.
- **EMOTIONS** – the biggest barrier to effective learning is our emotional response. Learning involves taking risks and students must feel safe, secure and confident to do this.

At UTC Swindon, this philosophy translates into an educational experience which offers:

- opportunities to test new skills through practical, real-world projects
- experiences of work which demonstrate the relevance and impact of knowledge
- a focus on developing independent learning skills, communication and teamwork
- a supportive learning environment which encourages students to take risks and learn from mistakes

This is underpinned by our core values of resilience, kindness, respect and being the best you can be.

Find out more about how our Learning Philosophy is inspiring new approaches to teaching and learning throughout this prospectus.



WHAT MAKES A UTC DIFFERENT?



www.utcolleges.org

A UTC is different from the average school because it has support and backing from local, high-profile industry partners who are involved in the development of the curriculum. Each UTC also has academic partners who help make sure that it really can offer students the best of both worlds.

This means you can take advantage of real-world based study of a UTC's specialist subjects while still taking the GCSEs and A Levels that you would at school.

UTCs are for students aged 14 to 19, as this is the age when you'll have a better idea of what you are really interested in and whether you would enjoy learning in high-tech surroundings.

The UK needs advanced technical skills at all levels if we are to prosper. Whether in manufacturing, electronics, computer programming, preventing cyber attacks or ensuring a sustainable future, we need a workforce that can develop new products, stretch and reuse existing resources, and meet the challenges of the future.



124,000

ENGINEERS AND TECHNICIANS WITH CORE ENGINEERING SKILLS REQUIRED PER YEAR

203,000

PEOPLE WITH LEVEL 3+ ENGINEERING SKILLS WILL BE NEEDED EVERY YEAR TO MEET DEMAND THROUGH TO 2024.

Caragh Nugent

Caragh joined UTC Swindon in Year 12 'to support her future career plans in Engineering due to the close links and project work with employers and excellent facilities and staff'.

Caragh achieved a triple Distinction* in her Extended Diploma in Engineering and was offered several apprenticeships, opting for a Degree Apprenticeship in Mechanical Engineering with Manufacturing at Babcock.

Liam Kanyepi

Liam spent four years at UTC Swindon, joining in Year 10 due to 'real career experiences and opportunities that were not available at his old school'.

Liam achieved A grades in Chemistry and Maths at A level, grade B in Computer Science and a Level 3 Merit in a Cyber Security Technical qualification. Liam continues his interest in Digital Technology through studying Computing at Surrey University.

Oli Kirby

Oli also joined in Year 10 'to follow his interests in STEM, especially the sciences'.

Oli achieved fantastic A level results with Computer Science, Maths, Chemistry and Physics all at grade A and has embarked on a Masters Degree programme in Physics at the University of Bath.

DIVERSITY IN STEM

UTC Swindon celebrates diversity and an inclusive community where everyone can be successful.

“WE ARE CREATING A PLACE OF LEARNING FOR EACH AND EVERY STUDENT IN OUR CARE AND NOTHING WILL STAND IN THE WAY OF THIS ENTITLEMENT. ALL OF OUR STUDENTS HAVE THE RIGHT TO GROW INTO WELL-INFORMED, CONFIDENT INDIVIDUALS WHO ARE ABLE TO DEMONSTRATE INDEPENDENT LEARNING AND RESPONSIBILITY IN THEIR ATTITUDES TOWARDS ONE ANOTHER”

One of the areas UTC Swindon is committed to supporting is girls who choose to study STEM subjects and build a career in technical industries.

Our campaign to promote women in science, technology and engineering is supported by the national issue that there are simply not enough women studying STEM subjects. As a college specialising in engineering and digital technologies, it is vital that we bridge the gap and can provide an essential workforce of women in these fields.

GIRLS MAKE UP LESS THAN ONE THIRD OF A-LEVEL AND GCSE PHYSICS STUDENTS BUT OUTPERFORM BOYS AT BOTH LEVELS



STEM SECTORS NEED TO BE ABLE TO DRAW ON THE WHOLE OF THE UK TALENT POOL. ACCORDING TO THE ROYAL SOCIETY OF EDINBURGH, INCREASING THE PARTICIPATION OF WOMEN IN THE STEM LABOUR MARKET COULD BE WORTH AT LEAST £2BN TO THE UK ECONOMY

WE WANT TO SHOW EVERY GIRL IN THIS COUNTRY, AND HER FAMILY, THAT SHE COULD HAVE A WONDERFUL FUTURE IN SCIENCE AND ENGINEERING

HRH The Princess Royal, Royal Patron of WISE (WISE annual report 2016)

Tamzin Baker

Having gained a fantastic set of results at UTC Swindon in Year 11, including a Distinction in Engineering, Tamzin is aiming to follow her career aspirations by gaining an apprenticeship.

Tamzin said: “Being at UTC Swindon has allowed me to build my confidence whilst studying towards a future career in Engineering.”

CASE STUDY

Myintmo Shi

Myintmo Shi was ‘delighted’ with her Level 3 qualification results - Level 3 Distinction in Cyber Security, Distinction/Merit in IT and A level grade C in Maths.

She has been awarded a scholarship to study Cyber Security at Anglia Ruskin University.

CASE STUDY



UTC SWINDON GCSE AND A LEVEL RESULTS 2021

80%

OF GRADES (YEAR 13) IN
TECHNICAL SUBJECTS AWARDED
AT LEVEL 3 DISTINCTION* - MERIT

Joyston Fernandes

Joyston gained a triple Distinction* for his Level 3 Extended Diploma in Engineering, alongside a grade C in A Level Maths. Joyston is now embarking on a Degree Apprenticeship in Engineering with Rolls Royce.

CASE STUDY

Tyler Anderson

Tyler achieved excellent Year 11 results with grade 9 in Biology, 8s in Chemistry, English Language and English Literature and a Level 2 Distinction in Manufacturing.

Tyler has selected Level 3 Engineering Diploma and A Level Maths when he stays on at UTC Swindon for Sixth Form.

CASE STUDY

90%

OF A LEVELS WERE
GRADED A*-C AND
63% A*-B

100%

YEAR 11 STUDENTS ACHIEVED PASSES IN
ENGLISH LANGUAGE, ENGLISH LITERATURE,
MATHS, BIOLOGY, CHEMISTRY AND PHYSICS

Kai Harris

Kai achieved great GCSE/equivalent results - grade 9 in Biology, grade 8 in Chemistry and Physics and Level 2 Distinction in Manufacturing. This has led to Kai choosing a Level 3 Engineering Diploma and A Level Chemistry at UTC Swindon's Sixth Form.

CASE STUDY

UTC SWINDON: LEARN FOR THE REAL WORLD

Our aim is to become a world-class centre of excellence in engineering and digital technologies education for 14 to 19 year olds who are committed to succeed in these areas.

Our students will be well-known for having the skills, attitude, behaviours, knowledge and experience that the world's leading employers are looking for. You will be well connected with our industry partners including Fujitsu, BMW, Nationwide, HOCHTIEF, REME, Royal Navy and Swindon and Wiltshire Police, which will give you access to great opportunities to learn from the best in the business.

Because our day is longer, you will need to manage your time effectively. It also means that you have the opportunity to take part in clubs and activities within the working day. Personal and Professional Development (PPD) takes place once a week to further support career aspirations and personal qualities that will make you even more competitive in the work market!

THE LEARNING EXPERIENCE

Your learning experience at UTC Swindon will be a combination of developing technical and academic knowledge, whilst applying it in a variety of practical and engaging situations. You will work on exciting and relevant projects that are similar to what goes on in the workplace. During these projects you will learn and work in a team in our purpose-built workshops, the newly installed Fujitsu Innovation Hub, laboratories and project spaces.

As a Sixth Form student, you'll also have plenty of time to complete your independent study tasks. There will always be someone on hand to help if you get stuck and at the end of the day you can go home without homework looming over you. Of course, like anyone with a rewarding job, you'll take your interests home with you, and we can't promise that you won't sometimes want to do a bit of extra reading or programming!

THE NUMBER OF ANNUAL
OPENINGS FOR DIGITAL
TECHNOLOGY SPECIALIST JOBS
IN ENGLAND IS PROJECTED TO
BE OVER 12,100 BETWEEN 2017
AND 2024

£25,880

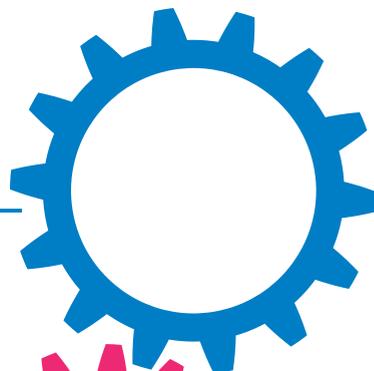
IS THE AVERAGE GRADUATE
SALARY FOR ENGINEERING
AND TECHNOLOGY,
COMPARED TO £22,000 FOR
ALL GRADUATES

STUDENT DESTINATIONS

Known destinations in 2021:

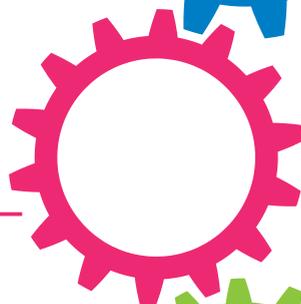
44%

OF YEAR 13 STUDENTS
PROGRESSED
TO UNIVERSITY



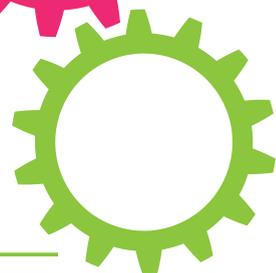
32%

OF YEAR 13 STUDENTS
PROGRESSED ON TO
AN APPRENTICESHIP



24%

OF YEAR 13 STUDENTS
PROGRESSED INTO
FULL-TIME EMPLOYMENT



Here are some of the exciting destinations students from UTC Swindon progressed to in 2021:

EMPLOYERS

ROLLS ROYCE
BMW
BAE SYSTEMS
NETWORK RAIL
RAF
CCM TECH
ATKINS
RWE

UNIVERSITIES

University of Bath
University of Surrey
University of Portsmouth
University of the West of England (UWE)
Coventry University
University of Gloucestershire
Anglia Ruskin University



PROJECT-BASED LEARNING

At UTC Swindon, we focus on delivering a rich learning experience for our students. Your technical qualifications will be supported by our industry partners who set real world projects for contextual learning.

Partners delivering projects to students

Royal Electrical and Mechanical Engineers (REME) challenge

Since 2018, Year 13 UTC Swindon Engineering students participate in the inter-college Royal Electrical Mechanical Engineers' (REME) Craftsman Cup Challenge, competing to be crowned winners of the prestigious Craftsman Cup.

Teams from UTC Swindon, UTC Reading, City of Oxford College and Reading College work on projects faced by REME engineers on a daily basis such as; modifying the payload of a Desert Hawk to enable the carrying of medical aid to the battlefield, or developing failure prevention systems for military equipment. The projects are tailored to link closely to the students' learning programmes which are rooted in STEM subjects and make up part of their Level 3 course units.

During the challenge, the project teams acquire and develop a range of skills and competencies such as: creativity, innovation, problem solving and communication, to engineer a solution to a given REME problem.

UTC Swindon, ex Year 13 student, Kyle Connelly, said: "Our team's project was focused on overcoming the problem the REME have when driving quads over terrains. The challenge we were set was to protect the traverse throttle so it doesn't roll, and so we decided to make a roll cage to protect it."

He continued: "As part of the project, we've visited the REME a few times, as well as their team visiting us to mind map some of the problems they have and things that commonly break. It's been good to work with experienced engineers; they're a great group of people and have a lot to input and challenge us with."

Jon Oliver, UTC Swindon Principal, commented: "We are grateful to REME for co-ordinating this fantastic project with our Year 13 students. Experiences like this are highly valuable as students are exposed to real-life problems and opportunities that they are likely to experience in the future if they consider a career in engineering."

CASE STUDY



THE KEY STAGE 4 CURRICULUM

| | |
|-----------------------------------|--|
| Core GCSEs | GCSE English Language GCSE English Literature GCSE Mathematics GCSE Biology GCSE Chemistry GCSE Physics |
| Specialist qualifications | NCFE Certificate in Engineering Studies Certificate in Engineering Manufacture Digital Technology qualifications |
| Technical and GCSE options | GCSE Computer Science OCR Certificate in Systems Control Engineering BTEC Certificate in Business with Esports GCSE Geography |
| Enrichment activities | Personal and Professional Development Sport and Recreation Global Cultural Learning |

Life as a student at UTC Swindon will be unlike any school experience you've ever had before.

Using the latest technology and equipment, you will learn through projects and practical activities. Teaching staff run lessons and seminars to introduce new topics and are always on hand to offer support in our independent learning spaces. You'll also work closely with our industry partners on projects and challenges they set.

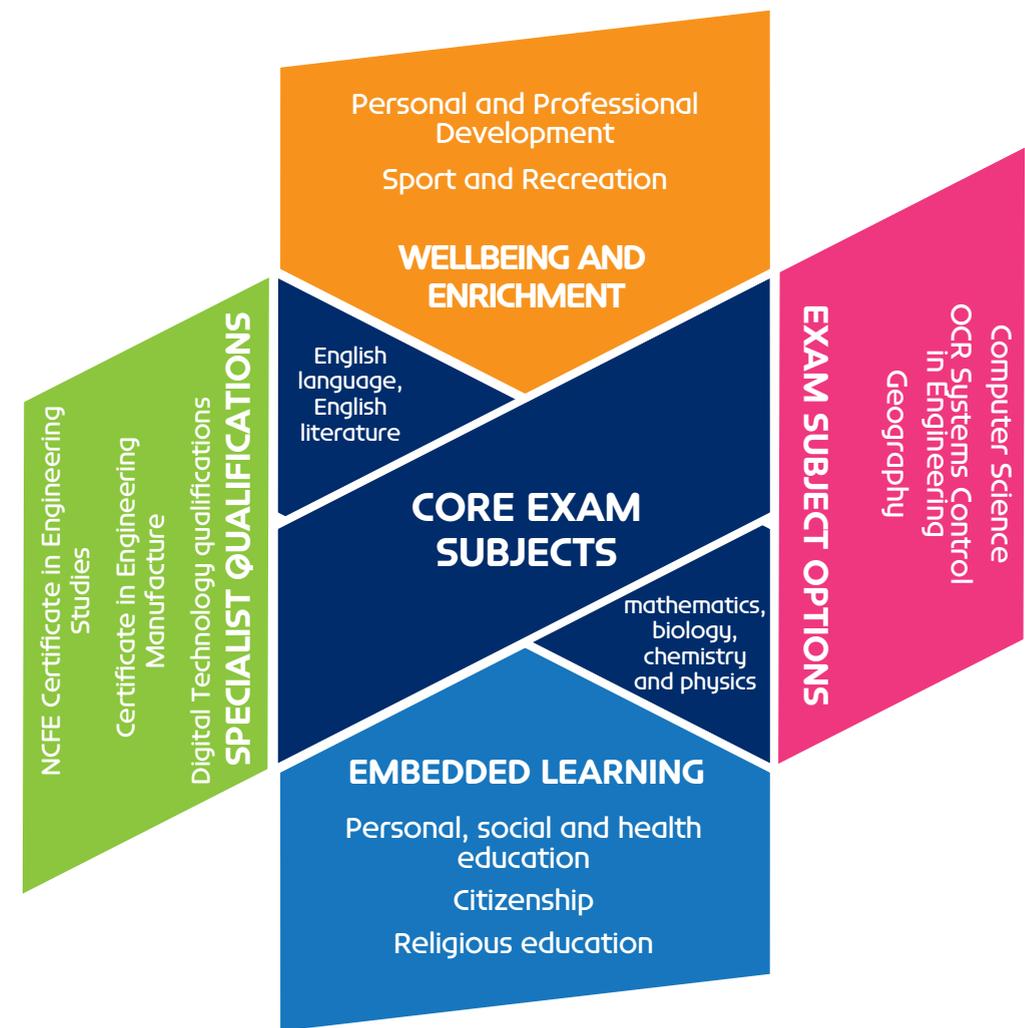
Alongside specialist qualifications, all students will study the core curriculum subjects of mathematics, English and sciences. You will also take part in weekly Personal and Professional Development, Sport and Recreation.

Visit www.utcswindon.co.uk for details on all courses studied at GCSE level.

SPECIALIST OPTIONS

At Key Stage 4, you will study one or both of our specialist areas. During the course of Key Stage 4 you will complete the equivalent of two GCSEs in Engineering and at least one in our additional specialist area of Digital Technology.

Find out more about our specialisms on our website: www.utcswindon.co.uk



COMING TO UTC SWINDON HAS COMPLETELY CHANGED ME AND I AM SO GLAD I MADE THE CHOICE TO MOVE. AS SOON AS I WALKED THROUGH THE DOORS AT THE OPEN EVENT, I WAS SMILING. I JUST KNEW I WOULD LOVE IT. BECAUSE IT'S A SMALLER SCHOOL, YOU GET TO KNOW EVERYONE REALLY WELL. YOU ARE VISIBLE AND THE TEACHERS GET TO KNOW YOU, AND LEARN HOW TO GET THE BEST OUT OF YOU. I FEEL SO SUPPORTED HERE AND AM FINALLY ABLE TO JUST BE MYSELF AND BE COMFORTABLE WITH THAT



Gabby, UTC Swindon student

POST-16 OPTIONS

In Year 12, you can tailor your engineering and/or digital technologies studies to fit your individual interests, abilities and ambitions. You can also work towards A Levels that complement your specialist studies.

Students choose subjects with the equivalence of 3 A Levels from ONE of the following pathways:

| TECHNICAL PATHWAY | A LEVEL PATHWAY | COMBINED PATHWAY |
|---|---|---|
| <p>BTEC Engineering Extended Diploma (Three A Level equivalent)</p> <p>BTEC Engineering Diploma (Two A Level equivalent) + BTEC IT Extended Certificate (One A Level equivalent)</p> <p>BTEC IT/Cyber Security Diploma (Two A Level equivalent) + BTEC Esports Extended Certificate (One A Level) equivalent)</p> | <p>Select THREE A Level subjects from the following:</p> <ul style="list-style-type: none"> Mathematics Physics Computer Science Chemistry English Language/Literature | <p>Select subjects from the following worth the equivalent of THREE A Levels:</p> <ul style="list-style-type: none"> BTEC Engineering Diploma (Two A Levels) BTEC IT Diploma (Two A Levels) BTEC IT Extended Certificate (One A Level) BTEC Esports Extended Certificate (One A Level) Mathematics (One A Level) Physics (One A Level) Computer Science (One A Level) Chemistry (One A Level) |



33,000

ENGINEERING COMPANIES NATIONALLY WILL HAVE NEARLY 33,000 ANNUAL OPENINGS FOR PEOPLE WITH SPECIALIST ENGINEERING SKILLS BETWEEN 2017 AND 2024 BUT THERE IS CURRENTLY A SHORTFALL OF 1.8 MILLION ENGINEERS ACROSS THE UK

Tara Whelan, UTC Swindon alumnus and current apprentice at Audi Swindon

Tara was offered a place on Audi's three-year apprenticeship programme in 2018.

"The reason I applied for an apprenticeship at Audi was because of my interest in cars; something which I've had from a young age. My dad is a mechanic and I always wanted to go to work with him growing up."

"I am looking to eventually become a diagnostic technician, or even a master technician, as well as doing my MOT training."

"Studying at UTC Swindon was, in all honesty, the making of me. I became focused and that is all down to the staff at the UTC. They helped me so much. The engineering experience at school was also massively handy!"



CASE STUDY

PROFESSIONAL QUALIFICATIONS

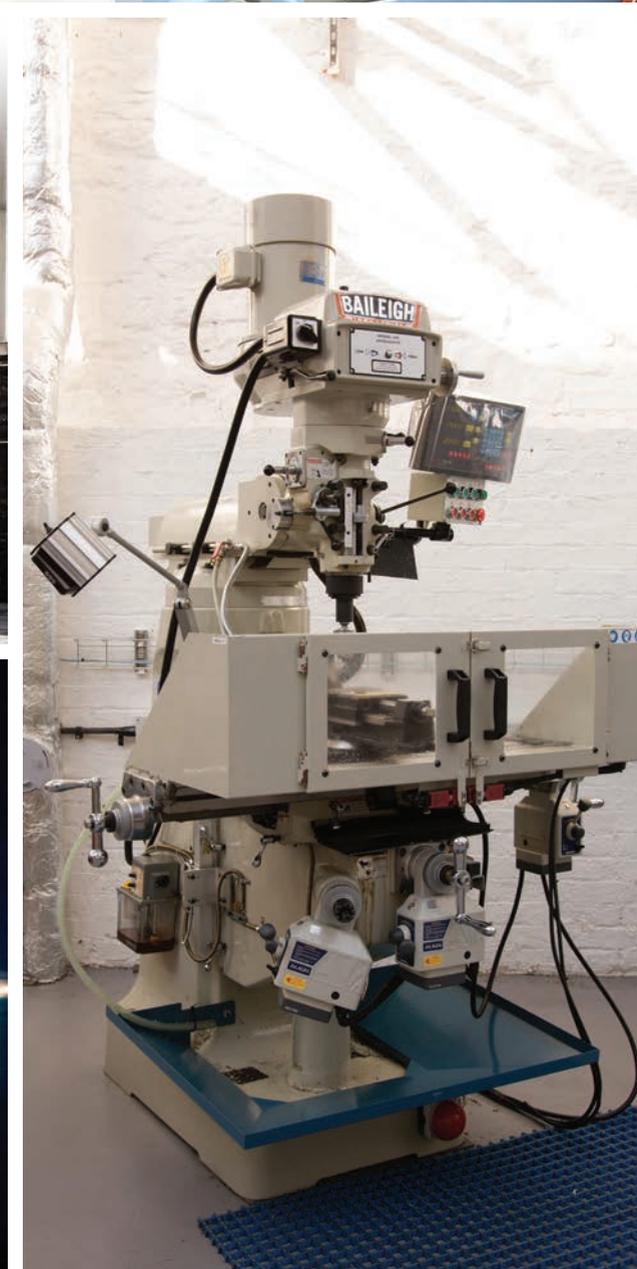
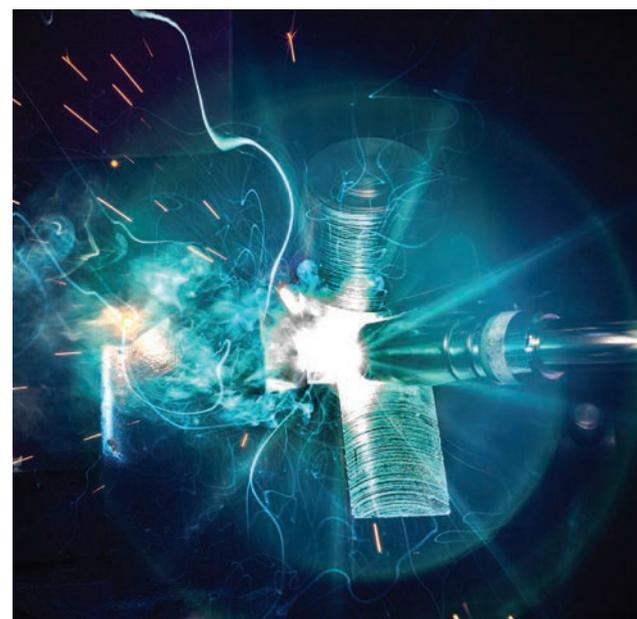
Alongside your studies, you will have the opportunity to develop technical skills and professional qualifications that will set you apart from the crowd.

In the Sixth Form, you will be expected to display high levels of independence in your learning, both in and out of the classroom. In addition, you can gain accreditation in sought after professional qualifications, including:

- Microsoft Technology Associate suite
- Autodesk
- Solidworks

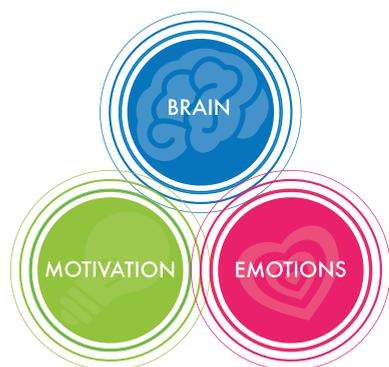


LEARN IN A STATE-OF-THE-ART ENVIRONMENT



EMPLOYABILITY SKILLS

Our Learning Philosophy is applied through activities in and out of the classroom



Employability skills

Competencies

- Confidence
- Drive
- Resilience
- Reflection

Skills

- Problem Solving
- Communication
- Self-Management
- Teamwork
- Creativity
- Numeracy
- Digital Skills
- Informed

Personal qualities

- Resilience
- Reliability
- Integrity
- Perseverance
- Productivity

These personal qualities are underpinned by our core values of being:



LEAD PARTNERS

UTC Swindon is very fortunate to be supported by sponsors and partners, who are working together to make sure we have everything in place for an exemplary engineering and digital technologies learning experience.

Our partners are involved in a number of ways, including:

- Consultancy and advice on curriculum content
- Product and services donations
- Employer accreditations
- Employer-led projects and challenges
- Coaching and mentoring for staff and students
- Providing work experience opportunities
- Participation in the governance of the UTC

PIPELINE PROGRAMME

We launched our ground-breaking Pipeline Programme along with UTC Reading and Heathrow in 2018, which does not focus on academic learning, but prepares students for the world of work, providing them with a direct line of sight to a career with an industry partner.

Every KS5 student will have the opportunity to team up with a Pipeline Partner when they begin with us in Year 12.

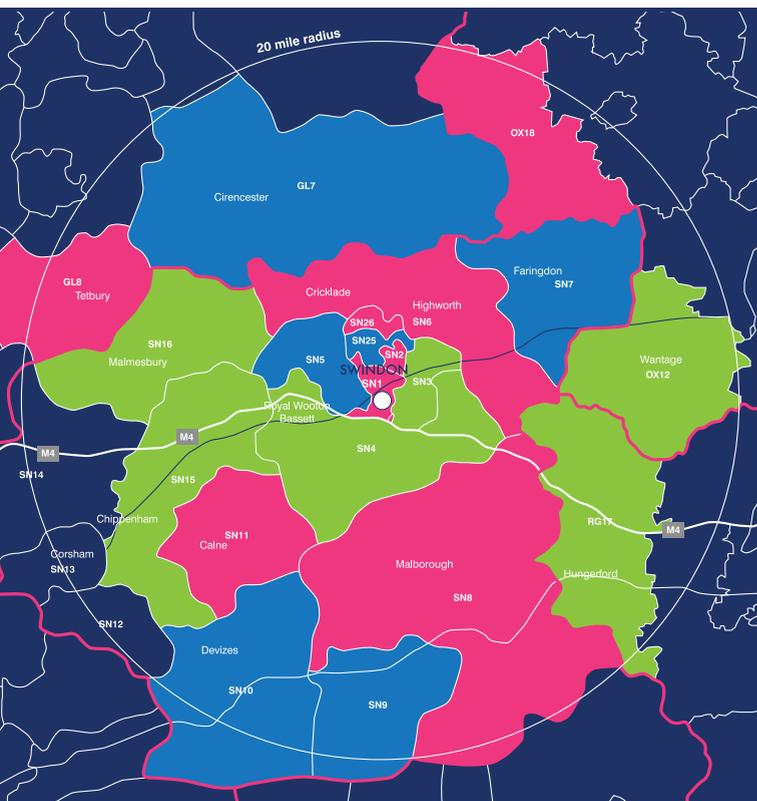
The benefits to our students is that it builds confidence, trust, rapport and relationships with a network of contacts within leading industry businesses. It gives them a clear line of sight to a career and it enables students to build the employability and technical skills needed to succeed in the workplace.

JOIN UTC SWINDON

If you are currently in Year 9 or Year 11 you are able to apply for a place. There are no selective tests to join the UTC at 14, but we do ask that you have a passion or interest in Engineering and/ or Digital Technologies, as these form a significant part of your studies. In order to gain entry to Year 12, you must have achieved a minimum of five GCSEs or equivalent at grade 9-5, including grade 5 in mathematics to study Engineering and some of the Digital courses and a minimum of grade 6 in the subject you wish to study for A Level.

UTCs are designed to be sub-regional providers so we welcome students from a wide catchment area.

Grouped postcode areas have been defined as the method to ensure geographical spread. This means that applicants living close to UTC Swindon do not have priority over other applicants within the other part of the catchment. A set percentage of places will be allocated for young people living in each of the grouped post code areas as shown on the map below.



POSTCODE GROUP A:

SN5, SN7, SN9, SN10, SN25, GL7

POSTCODE GROUP B:

SN1, SN2, SN6, SN8, SN11, SN26, OX18, GL8

POSTCODE GROUP C:

SN3, SN4, SN15, SN16, RG17, OX12

UTC SWINDON:



HOW TO APPLY

You should apply via the application forms on the UTC Swindon website: www.utcswindon.co.uk

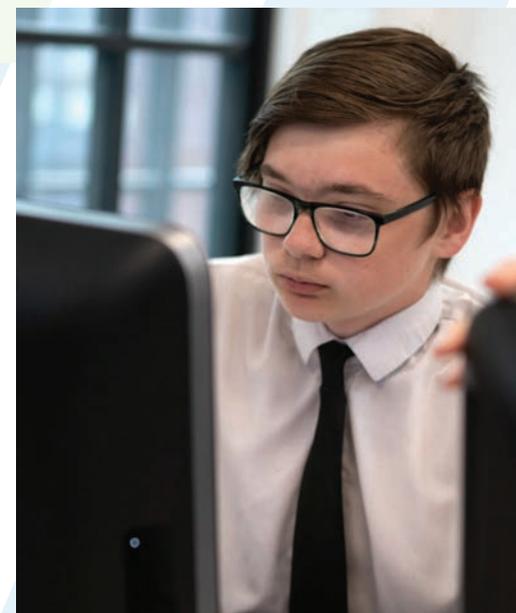
ARE YOU READY TO MOVE FROM SCHOOL TO UTC SWINDON?

We believe that there are many very good reasons to choose UTC Swindon. However, we also understand that the decision to change school is a big one.

As you lead up to your transition to UTC Swindon we will work with you, your family and your existing school to make sure that you are making the right decision. In making the move from school to UTC Swindon it is important that you:

- are able to make an informed choice based on a good understanding of what UTC Swindon has to offer
- come to taster events that we put on to get a feel for the UTC and what it will be like
- have a real interest in STEM and possible career pathways in Engineering or Digital Technologies
- come and talk to us
- take advantage of the support, guidance and welfare on offer

What matters to us is that you have made the right decision.



FIND OUT MORE

OPEN EVENTS

We run a number of open events, taster days and information sessions throughout the year. Please come along to find out more and ask any questions you have.

Visit our website to find out further information about our events: www.utcswindon.co.uk

GET IN TOUCH

There are a number of ways to contact us:

Phone: 01793 207 920

Email: info@utcswindon.co.uk

Visit: Book an appointment to speak with a member of the teaching team:

UTC Swindon, Bristol Street, Swindon, SN1 5ET

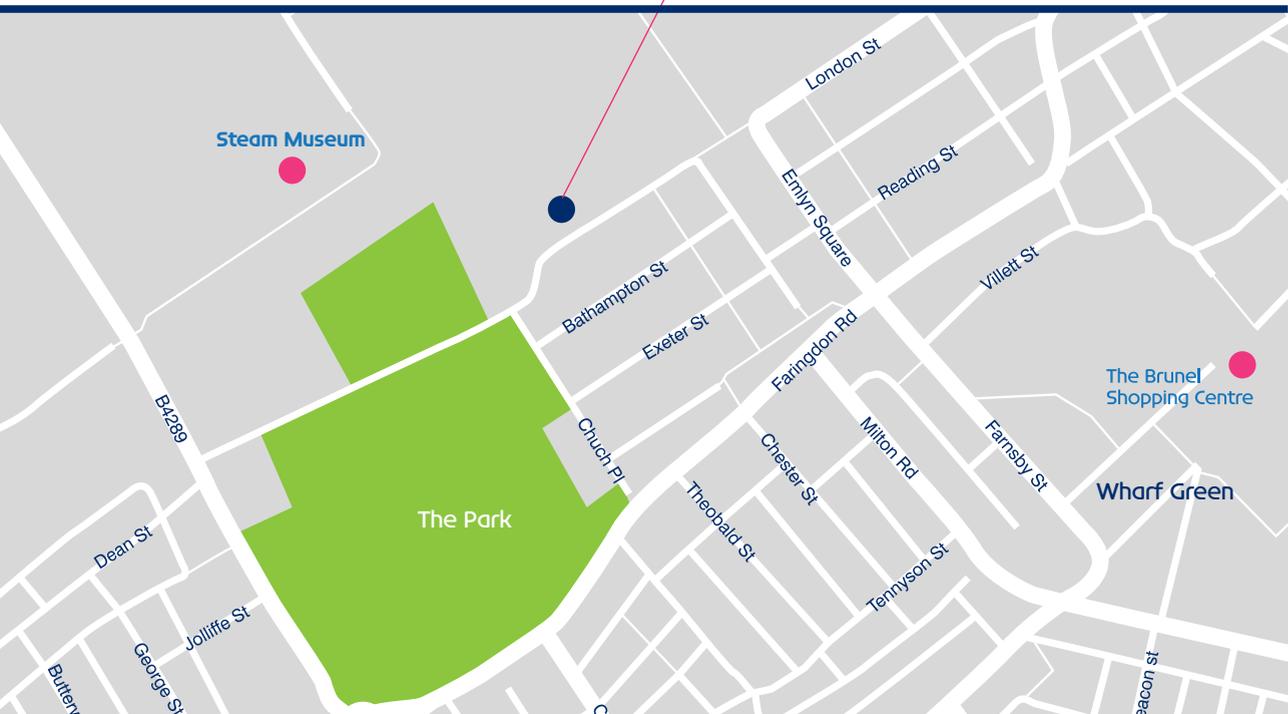
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