LEADING STEM ACADEMY **& SIXTH FORM COLLEGE**



YEAR 12 PROSPECTUS







UTC Warrington offers Sixth Form students with a passion for science and technology personalised learning in a professional environment with proven pathways into sought-after apprenticeships and competitive university places.

We are Ofsted graded Good and sponsored by Manchester Metropolitan University.



University **Technical** Colleges®

University Technical Colleges (UTCs) are government-funded science and technology academies developed with employers and universities to focus on the skills the UK needs for the future.

INTRODUCTION FROM THE PRINCIPAL

Welcome to UTC Warrington! We are a purpose-built science and technology academy in the heart of Warrington – a town synonymous with engineering, technology and manufacturing.

Students in Year 12 and Year 13 with a passion for Science, Technology, Engineering or Maths (STEM) can study different combinations of A Levels and technical qualifications for exciting specialist pathways:

- 🕸 Engineering Pathway
- Construction Pathway with Business Information Modelling
- Digital Pathway with Cyber Security
- 🕸 Healthcare Pathway

Our unique combination of technical and academic curriculum is complemented by a personal development programme which brings out the best in each student and enhances their softer employability skills.

Our success is measured in the great results and destinations that our students achieve. I am proud that we continue to uphold a record of securing 100% progression from Year 13 into advanced, higher and degree apprenticeships, as well as competitive university places and employment.

We bring education and business together in a way that gives our students the very best preparation for high quality careers, working with the region's top employers, many of them global names, including Atkins, Balfour Beatty, Cavendish Nuclear, Fujitsu, Jacobs Engineering Group, Sellafield Ltd and Stanley Engineered Fastenings. As a result, we have established a talent pipeline into apprenticeships with these employers.

Our Higher Education Partner, Manchester Metropolitan University, and our employer partners are represented on the governing body and work closely with the UTC and the students to develop their employability skills and provide work placements.

For students who want more than just qualifications, we provide an all-round education focused on future progression. I look forward meeting you at one of our open events and to sharing with you the great opportunities that UTC Warrington provides at Key Stage 5.

Lee Barber

Chief Executive and Principal

TOP REASONS FOR CHOOSING UTC WARRINGTON

Breadth and depth of employer engagement

State-of-the-art
STEM facilities

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Personal development programme

One-on-one teaching in small class sizes

In 2019, UTC Warrington had its first Ofsted inspection and was graded Good in all areas including: leadership, quality of teaching, personal development, behaviour and welfare, outcomes for students and 16 to 19 study programmes.

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Established pipeline for competitive apprenticeships and STEM courses

Professional, mature learning environment

"I chose the UTC for the engineering options and STEM subjects. I've had a great time and really enjoyed being part of a close-knit community."

Ben Danby, Year 13 Graduate, Class of 2020 "I have developed many skills at the UTC such as problem solving, teamwork and leadership together with practical skills, e.g. how to operate 3D printers, laser cutters, lathes and using various engineering tooling." Elliot Entwistle, Year 13 graduate now on a 3-year apprenticeship with BMW

FACILITIES

Based in the heart of Warrington, our £10 million iconic building stands out on the skyline. Rising six stories high, each floor is filled with state-of-the-art equipment, reflecting a £1m investment in creating an innovative and exciting environment for students to learn.

- Industry-standard specialist engineering equipment
- Materials' testing workshop
- Mechanical & manufacturing engineering workshop
- Hydraulics & pneumatics workshop
- 🕸 Electronics workshop
- High-spec prototyping facilities with laser cutting and 3D printers
- Computer Numerically Controlled (CNC) machine suite
- Computer Aided Design (CAD) suites

- £540,000 investment in state-of-the-art ICT resources throughout
- Latest interactive systems and programming software
- VEX Robotics equipment
- 🕸 Fujitsu digital hub
- 🕸 New Cyber hub
- Five high-spec science laboratories
- Dedicated Sixth Form area on the fourth floor
- American diner themed restaurant, Power Station coffee shop and grab-and-go deli

There is wheelchair accessibility across the site, including wide doorways and a lift to all floors.

Take our virtual tour at **www.utcw.co.uk/location** to have a look around our fantastic building and facilities.



LINKS WITH EMPLOYERS

Our employer partners are the driving force behind UTC Warrington.

We are partnered with over 60 top employers, both local and national, including Atkins, Balfour Beatty, Cavendish Nuclear, Fujitsu, Jacobs Engineering Group, Sellafield Ltd and Stanley Engineered Fastenings.

Students are exposed to the world of work through a variety of employer engagement activities:

- 🕸 Trips and visits
- 🕸 Employer-led projects
- Business mentoring days when groups of employers visit the UTC
- 🌼 Masterclasses and workshops
- Briefings on apprenticeship opportunities
- 🔅 Work placements

Employer partners work alongside teachers to set students **real life projects**. Technical projects are designed to deepen and enrich learning from across the curriculum whilst building crucial professional skills and characteristics.



In 2019, there were 92 different employer opportunities for students across all year groups, including mentoring, lectures and site visits. Every 1 in 2 days a local or national business was actively working with our students. "NSAN are delighted to be working with UTC Warrington and supporting our local members to access the fantastic facilities the UTC has to offer. Apprenticeships are critical to meeting the future skills needs of the nuclear industry, and it's great to see the regular opportunities UTC students are provided with to work with local nuclear companies to develop their knowledge and skills." **Nicola Merriman, Operations Manager at National Skills Academy Nuclear (NSAN)** *UTC Warrington is about to become a flagship training centre for NSAN*

ATKINS

Balfour Beatty













LINKS WITH MANCHESTER METROPOLITAN UNIVERSITY

We are extremely proud to work with our key sponsor, Manchester Metropolitan University (MMU).

The UTC enjoys close support from the University, including representation on the UTC's governing body. We benefit from the technical knowledge of the academic experts at the MMU School of Science & Engineering, who co-deliver some parts of the Engineering curriculum at the Manchester city centre campuses. UTC students have access to the scientific and engineering facilities at the University including the 3D printing studio and the automotive centre. Importantly, the University is able to support our students with insights into higher education and how to access high quality higher education provision.

DESTINATIONS, DESTINATIONS, DESTINATIONS

The culture of the UTC is all about destinations – we focus on where students are going, not just on grades.

100% of our Year 13 students progress to positive destinations including university, higher and degree apprenticeships and employment.

38% of UTC leavers secured high status higher or degree apprenticeships in STEM related areas in 2019 compared to the national average of just 5%.

UNIVERSITY DESTINATIONS:

- Aeronautical Engineering at University of Southampton
- Aircraft Engineering at University of Salford
- Chemical Engineering at University of Chester
- Civil Engineering at University of Exeter
- **Omputing at Lancaster University**
- Computer Science at University of Edinburgh
- Cyber Security at University of Salford
- 🕸 Maths at University of Manchester
- Mechanical Engineering at Manchester Metropolitan University

ADVANCED, HIGHER AND DEGREE APPRENTICESHIPS WITH:

- BAE SystemsBMW
- 🕸 Boeing
- 😣 Cavendish Nuclear
- 🕸 Daresbury Labs
- 🕸 Nuvia
- Pharmaceuticals company AAH
- 🕸 🛛 Royal Navy
- 🕸 Sellafield Ltd
- 🕸 Solus
- Science & Technology Facilities Council
- Stanley Engineered Fastenings
- 🕸 🛛 Wood plc



OLE FLETCHER Year 13 Engineering Specialism D* D* D Destination: Aircraft Maintenance Apprenticeship at Boeing



BEN DANBY Year 13 Digital Specialism A* A* A Destination: Computer Science at University of Edinburgh





TEAGAN FEERICK Year 13 Construction Specialism D* D* D* Destination: Civil Engineering at University of Exeter





ADAM BELLIS Year 13 Digital Specialism D M M Destination: Cyber Security at University of Salford I moved to the UTC because it was a better environment for me to learn in. There were smaller class sizes and more specialised learning."

ADAM BELLIS, YEAR 13 GRADUATE, CLASS OF 2020

LEARN MORE AT UTCW.CO.UK/DESTINATIONS

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STUDENT EXPERIENCE

Through our enrichment programme, all students have the chance to develop themselves both personally and professionally. Our activities, which form an integral part of the UTC experience, demand leadership, initiative and resilience. They teach our students how to work in a team and approach any challenge with self-confidence.

Each year we review the programme to ensure that it offers a selection of options our current student base will enjoy as well as gain from. Sample activities include:

- 🕸 Duke of Edinburgh Award
- Combined Cadet Force (CCF)
- 🕸 Sports Coaching
- 🕸 Royal Navy Engineering Challenge
- 🕸 Green Kart Racing
- 🌼 Programming and Coding
- 🕸 Young Enterprise
- 🍪 The Baker Technical Award
- STEM Ambassadors
- 🕸 Reading and Book Club
- 🕸 Boxing
- 🍄 🛛 Table Tennis
- 🕸 Engineering Skills

Our enrichment programme is built round the nationally accredited PiXL Edge skills framework covering Leadership, Organisation, Communication, Initiative and Resilience.

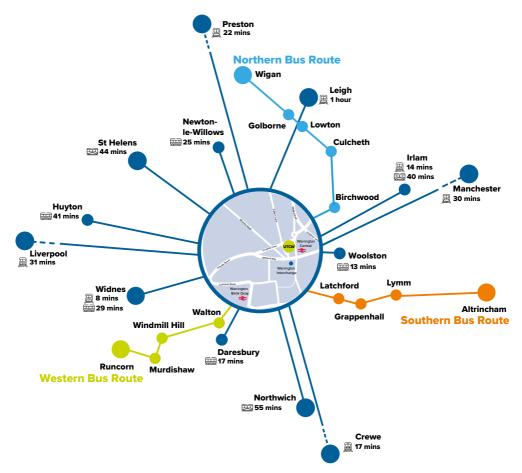
NATIONAL CITIZEN SERVICE

Partnering with Warrington Youth Club, all Year 12 students take part in the NCS programme at the start of the year. The programme, including a residential trip away, gives students the chance to build on their teamwork skills, raising money for local social action projects and charities.

COMBINED CADET FORCE

Being a cadet is not just about military themed activities; it helps break down barriers, grow friendships and develop those teamwork and leadership traits that employers are actively looking for. Working with the 75 Engineers local army reserve unit puts our cadets at a competitive advantage against others in the market for apprenticeship and university places, as well as giving a wide exposure to STEM opportunities.

TRANSPORT LINKS





UTC Warrington forms part of the £190m Stadium Quarter development connecting the bus interchange with the Warrington Wolves' Halliwell Jones Stadium.

Our six-storey, iconic building sits conveniently opposite Warrington Central train station and 2 minutes' walk from Warrington bus station, making travelling to and from college straight forward for our students. Warrington Bank Quay is on the West Coast Mainline and is ten minutes' walk away. As a result, we have students from all over the region not just local to Warrington.



YOUR SIXTH FORM CURRICULUM

Choose from four exciting pathways which can be tailored round your personal interests and ambitions.

CORE CURRICULUM

Studying in Year 12 and Year 13 at UTC Warrington is focused and personal. You will join others who are passionate about their subjects and learn with specialist teachers in small groups that allow for personal, one-to-one support. The emphasis is very much on developing all-round professionalism so 40% of your time will be outside the

classroom working with employers and engaging in our personal development programme.

Our network of employer partners will ensure that you leave the UTC well connected with an exceptional awareness of how to succeed in your chosen field.



FLEXIBLE ROUTES

You can opt for a purely specialist vocational route in one of our four exciting pathways, or you can opt to mix a vocational qualification with one or more optional A Levels. We will work with you to identify the best route for you based on your interests and ambitions.

Current A level subject options:

- A Level Art & Architecture
- A Level Mathematics

With BTEC qualifications, you can earn UCAS points with a pass, merit or distinction – giving you the option to head off to University or take your skills into the workplace.



OR ASK US ABOUT OUR ONE-YEAR TECHNICAL FOUNDATION COURSE, BUILD YOUR SKILLS, BROADEN YOUR EXPERIENCE AND PROGRESS ON TO AN APPRENTICESHIP OR FURTHER STUDY.

	VOCATIONAL ROUTE	COMBINED ROUTE
ENGINEERING PATHWAY	Pearson BTEC Level 3 National Extended Diploma in Engineering (= 3 A Levels)	Pearson BTEC Level 3 National Diploma in Engineering (= 2 A Levels) + complimentary A Levels
	Pearson BTEC Level 3 National Extended Diploma in Civil Engineering (= 3 A Levels) Building Information Modelling Award (= 1 A Level)	Pearson BTEC Level 3 National Diploma in Civil Engineering (= 2 A Levels) + complimentary A Levels Building Information Modelling Award (= 1 A Level)
DIGITAL PATHWAY	Pearson BTEC Level 3 National Extended Diploma in Computing (= 3 A Levels) Optional Extended Project Qualification (EPQ) in Cyber Security (= 0.5 A Levels)	Pearson BTEC Level 3 National Diploma in Computing (= 2 A Levels) + complimentary A Levels Optional Extended Project Qualification (EPQ) in Cyber Security (= 0.5 A Levels)
	Pearson BTEC Level 3 National Extended Diploma in Health and Social Care (= 3 A Levels) Optional Extended Project Qualification (EPQ) in Healthcare (= 0.5 A Levels)	Pearson BTEC Level 3 National Diploma in Health and Social Care (= 2 A Levels) + complimentary A Levels Optional Extended Project Qualification (EPQ) in Healthcare (= 0.5 A Levels)

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ENRICHMENT PROGRAMME

A wide-ranging personal development programme with activities outside the classroom to help students develop more broadly.

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EMPLOYABILITY PROGRAMME

An outstanding careers and professional development programme offering talks, visits, masterclasses, mentoring, work placements, project-based learning and future employment opportunities.



FOR A FULL DESCRIPTION OF WHAT EACH PATHWAY ENTAILS, PLEASE VISIT HTTPS://UTCW.CO.UK/SIXTH-FORM-CURRICULUM

CONSTRUCTION

Are you interested in how buildings work and what they look like? Do you want to contribute to saving energy and making a greener world? You could enjoy a career in construction and civil engineering.

Our Construction pathway will provide you with the skills and knowledge needed for an exciting career in the Construction industry, such as building surveying, site management, and architecture. You will develop skills in design, analysis and evaluation across a wide range of Civil Engineering topics.

We also cover Business Information Modelling (BIM) – a technology-based process which uses cutting-edge techniques with industry standard software to provide you with a range of progressive skills that are in high demand in a wide range of careers. The BIM DesignEngineerConstruct!® (DEC) qualification is supported by organisations such as the Royal Institution of Chartered Surveyors and the Chartered Institution of Civil Engineering Surveyors.

YOUR FUTURE CAREER PATH COULD BE:





At the UTC you can choose between a purely vocational pathway or a combination of BTEC and A Levels depending on whether you are focused on an apprenticeship or university . We work with you to decide which is the best option for you.

Vocational: Pearson BTEC Level 3 National Extended Diploma in Civil Engineering (= 3 A Levels) + BIM DesignEngineerConstruct!® (DEC) qualification (= 1 A Level)

Combined: Pearson BTEC Level 3 National Diploma in Civil Engineering (= 2 A Levels) + complimentary A Levels + BIM DesignEngineerConstruct!® (DEC) qualification (= 1 A Level)

YOU WILL STUDY TOPICS LIKE:

- Business Information Modelling
- **Onstruction Principles**
- Construction Design
- Construction Technology
- 🕸 Graphical Detailing
- Managing a Construction Project
- **ORACINATION STATE** Planning Submissions
- Site Engineering

Alongside your studies you will work with top employers to build your commercial awareness. For example, Lane End, a specialist company that sources land and delivers high quality developments across the North West invited our Construction students to visit Academy Street in Warrington town centre to see the real-life work of site managers, bricklayers, architects and engineers of the future.





YOUR FUTURE CAREER PATH COULD BE:

- 🕸 Al Researcher
- **Ø** Animator
- 🕸 Cyber Security Analyst
- 🕸 Data Scientist
- 🕸 Games Designer
- Network Architect
- Software Developer

DIGITAL

Do you enjoy using technology to make and create? Have you already started programming at school or at home? Perhaps you've been taking a computer apart and rebuilding it, or programming robots, or making your own app.

Our Digital pathway has been designed with professional partners who want prospective recruits to have knowledge and skills in computing, including programming, problem solving, and critical thinking. These are skills that employers need in every employment sector, so you could be working for the health service, a car manufacturer or an environmental agency, not just a tech company. In fact, digital jobs are growing faster than any other part of the economy.

YOU WILL STUDY TOPICS LIKE:

- Principles of Computer Science
 IT Systems, Security and Encryption
 Business Applications of Social Media
 Relational Database Development
 Object Oriented Programming
 Networking
 Virtualisation
- Digital Graphics and Animation

At the UTC you can choose between a purely vocational pathway or a combination of BTEC and A Levels depending on whether you are focused on an apprenticeship or university. If you combine with A Level Maths you can study Computer Science at university. We work with you to decide which is the best option for you.

Vocational: Pearson BTEC Level 3 National Extended Diploma in Computing (= 3 A Levels)

Combined: Pearson BTEC Level 3 National Diploma in Computing (= 2 A Levels) + complimentary A Levels

Alongside your studies you will work with top employers. For example, Fujitsu is part of the national UTC Cyber Group and is dedicated to engaging with UTC students through site visits, work placements and practical masterclasses. Our students have visited Fujitsu to hear from Fujitsu apprentices and tour their digital threat centre.



OPTIONAL EXTENDED PROJECT QUALIFICATION (EPQ) IN CYBER SECURITY (= 0.5 A LEVELS)

One of the fastest growing areas of the digital industry, cyber security specialists are greatly in demand. On the EPQ you will study topics like risk assessment, secure systems, cryptography, digital forensics and secure testing.



Figures from the global information security workforce study show there could be around 100,000 unfilled cybersecurity jobs in the UK by 2022

ENGINEERING

Do you like to get to the bottom of how things work, solve problems and make things? You could be an engineer!

Engineering is a combination of science and maths used to solve real-life problems. As an engineer you could help to design and construct visionary buildings, work on aircraft, develop the latest green technology to save the planet, or invent new medical devices to improve healthcare.

Our Engineering pathway will open the door for you to career opportunities in the civil, mechanical, electronic and design sectors. You will gain the opportunity to develop knowledge and skills in the design, development, manufacture and maintenance of engineering products and systems.



YOU WILL STUDY A WIDE RANGE OF TOPICS INCLUDING:

- 🕸 Computer Aided Design
- Electrical Power Distribution
- Electronic Printed
 Circuit Board Design
 & Manufacture
- Engineering Principles
- Engineering Product Design & Manufacture
- **Ø** Hydraulics & Pneumatics
- Microcontroller Systems for Engineers
- Calculus to Solve Engineering Problems
- Non Metallic and Metallic Materials
- Maintenance of Mechanical Systems

At the UTC you can choose between a purely vocational pathway or a combination of BTEC and A Levels depending on whether you are focused on an apprenticeship or university. You will need A Level Maths to study Engineering at university. We work with you to decide which is the best option for you.

Vocational: Pearson BTEC Level 3 National Extended Diploma in Engineering (= 3 A levels)

Combined: Pearson BTEC Level 3 National Diploma in Engineering (= 2 A Levels) + complimentary A Levels

Part of your learning will involve reallife challenges set by engineering and manufacturing employers that will stretch you and build your industry skills. For example, this could include working with companies such as Wood PLC to make wind turbines and testing of materials in the specialist facilities at Manchester Metropolitan University. You will also have opportunities for industry-related work experience.



HEALTHCARE

Are you curious about how the human body works? Do you like to help people? Do you want to work in a caring profession and make a difference?

Healthcare at UTC Warrington will provide you with the knowledge and skills to work across numerous vocational areas of the healthcare sector. You will look at the application of Health and Social Care working with employers and gain a good grounding in science and technical skills.

Our Health and Social Care Pathway will develop key skills that you will need for a career in healthcare, such as interpreting data to assess an individual's health.

You will develop effective ways of working, such as designing a plan to improve an individual's health and wellbeing. You will also develop essential knowledge about key areas such as human growth and development, health and social care services, and factors affecting people's health and wellbeing.

YOUR FUTURE CAREER PATH COULD BE:

- Adult Nurse
 Dentist
 Forensic Psychologist
 Health Psychologist
 Occupational Therapist
- 🕸 Social Worker
- TherapeuticRadiographer



At the UTC you can choose between a purely vocational pathway or a combination of BTEC and A Levels depending on whether you are focused on an apprenticeship or university. We work with you to decide which is the best route for you.

Vocational: Pearson BTEC Level 3 National Extended Diploma in Health and Social Care (= 3 A Levels) + optional Extended Project Qualification (EPQ) (= 0.5 A Levels)

Combined: Pearson BTEC Level 3 National Diploma in Health and Social Care (= 2 A Levels) + complimentary A Levels + optional Extended Project Qualification (EPQ) (= 0.5 A Levels)

Both the vocational and combined route provide an in-depth study of the health and social care sector and support progression to health and social care related degrees. Part of your learning will involve real-life challenges set by healthcare employers that will stretch you and build your industry skills. Alongside your studies you will work with local health and social care employers through site visits, work placements and practical masterclasses.

YOU WILL STUDY A WIDE RANGE OF TOPICS INCLUDING:

- Working Health and Social Care
- Human Lifespan Development
- Anatomy and Physiology
- Biomedical Science
- Medical Physics Applications in the Health Sector
- Work Experience in Health and Social Care
- 🕸 Nutritional Health



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MONKEKA DUFFY Year 13 Engineering Specialism D* D* (2019) Destination: Degree Apprenticeship in Mechanical Design Engineering with Sellafield Ltd

I gained work experience with Airbus whilst at the UTC and this has helped me understand the concepts in my aeronautical engineering qualification and gave me the determination to secure this apprenticeship."

MONEKA DUFFY, YEAR 13 GRADUATE, CLASS OF 2019

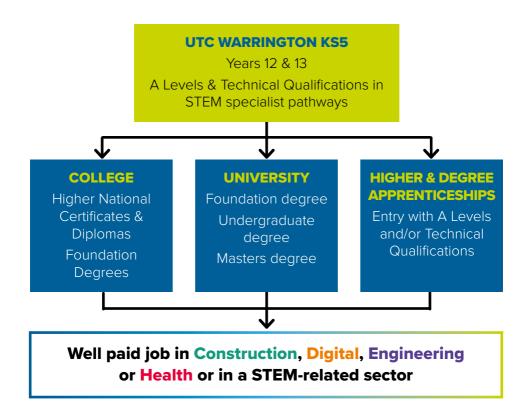
PATHWAYS

We want to ensure that you are equipped for a fulfilling and rewarding career, whether you progress onto an apprenticeship, into university, or directly into employment.

At every stage, you will have access to independent advice and guidance as well as tutor and mentor support to help you choose the right option for you.

Our dedicated careers advisers work with students to ensure they make the most appropriate choices for their post-18 pathway. The UTC places great emphasis on professional Careers Education, Information, Advice and Guidance (CEIAG) for all students.

This is combined with work experience in both Year 12 and Year 13, extensive opportunities to meet with employers and work on industry projects, to assist students in making informed decisions. As a result, we have a track record of 100% of students progressing successfully onto further studies, apprenticeships and employment.



APPLY NOW

UTC Warrington admits students into Year 10 and Year 12. The deadline for applications is 12 February 2021.

UTC Warrington is open to all students from Warrington and the geographical corridor from Manchester to Liverpool.



Offer letters will be issued to applicants by 1 March 2021 for entry in September 2021. In the event of over-subscription, every attempt will be made to ensure that applicants from across the region have a fair chance of gaining a place, with a waiting list for all applications.

Late applications will be accepted, but places will be subject to availability. The full admissions policy is available on our website at https://utcw.co.uk/admissions If you are looking to apply, please complete an application form online on the UTC website or complete an application form and send to us at:

UTC Warrington, Dallam Lane, Warrington, WA2 7NG

If you have any queries, please contact the admissions team at the UTC on **01925 737067** or email: **info@utcw.co.uk**

APPLICATIONS DURING THE SCHOOL YEAR

For in-year entry during the school year, parents should apply directly to the UTC. Please contact **info@utcw.** co.uk



OPEN EVENTS AND TASTER SESSIONS

We offer a range of taster events and talks for both parents/carers and potential students during the 2020/21 academic year.

Please come along to meet with our Principal, Lee Barber, and the Senior Leadership Team, and find out more about UTC Warrington.

If you are unable to attend an open event, please contact us to arrange a visit on 01925 737067 or email: info@utcw.co.uk

Full details of these events are available on our website www.utcw.co.uk



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