

# Liverpool Life Sciences UTC prospectus

# 2024



# Preparing Young People for the Jobs of Tomorrow

## Welcome

We're dedicated to creating opportunities for students across the fields of science, engineering and healthcare. To giving you experiences you wouldn't find elsewhere, and making you stand out as students, in whatever path you decide to pursue.

We promise all of our students a job, apprenticeship or degree course when you leave. And, so far, we have delivered that successfully with our students going on to incredible opportunities.

'Every day is an interview' is our motto, and this applies to all aspects of our school life.

Our students are treated as adults and are encouraged to demonstrate maturity, passion and commitment at every level in their journey.

You can study a broad range of BTEC and A level subjects; and you can choose pathways that lead you directly into careers in science, medicine, nursing, engineering and veterinary science. All of that takes place in an energetic

school environment, with cutting-edge facilities.

We also work closely with leading businesses, hospitals and organisations in the health, science and engineering sectors, who provide our students with unforgettable real-world experiences.

They're the things that universities and employers tell us really make our students stand out. They help equip you for the future world of work, and build your confidence, knowledge and thirst for learning.

Come on in, take a look around, and find out a bit more about us, and how we can help you.



**We're committed to providing the highest standards of teaching and learning, combined with real industry experience, which opens doors for our students. We're proud to work with world-leaders in science and healthcare, giving students the ability to build a strong portfolio of experience, so you can hit the ground running once you graduate from our UTC.**

## Why we do it: Our promise

We promise to secure the future for all of our students. Whether you want to go to university, find a job, or take up an apprenticeship – we can guarantee your next steps. Our pupils are highly motivated to achieve the best results through our personalised pathways and real-world teaching approach, and on successful completion of their courses, all of our students have secured one of the following:

### A university place



When applying to university, our students have a competitive edge. We work closely with admissions teams to give our students the best possible advice about course choices and requirements. Students go on to competitive university courses in a range of subjects including: medicine, nursing and the health professions, the sciences, social sciences, engineering and more.

### Apprenticeship or degree apprenticeship

Our students secure degree level apprenticeships with top UK employers including Dyson, Unilever and Barclays. We work closely with local and national employers to promote a range of degree level and higher level apprenticeships and help students to prepare successful applications.



### A job



There's plenty of opportunity for our students to take up an entry-level job once graduating from us. We work directly with HR departments to ensure a smooth pathway into the workforce, in roles including laboratory technicians, manufacturing technicians and healthcare assistants.

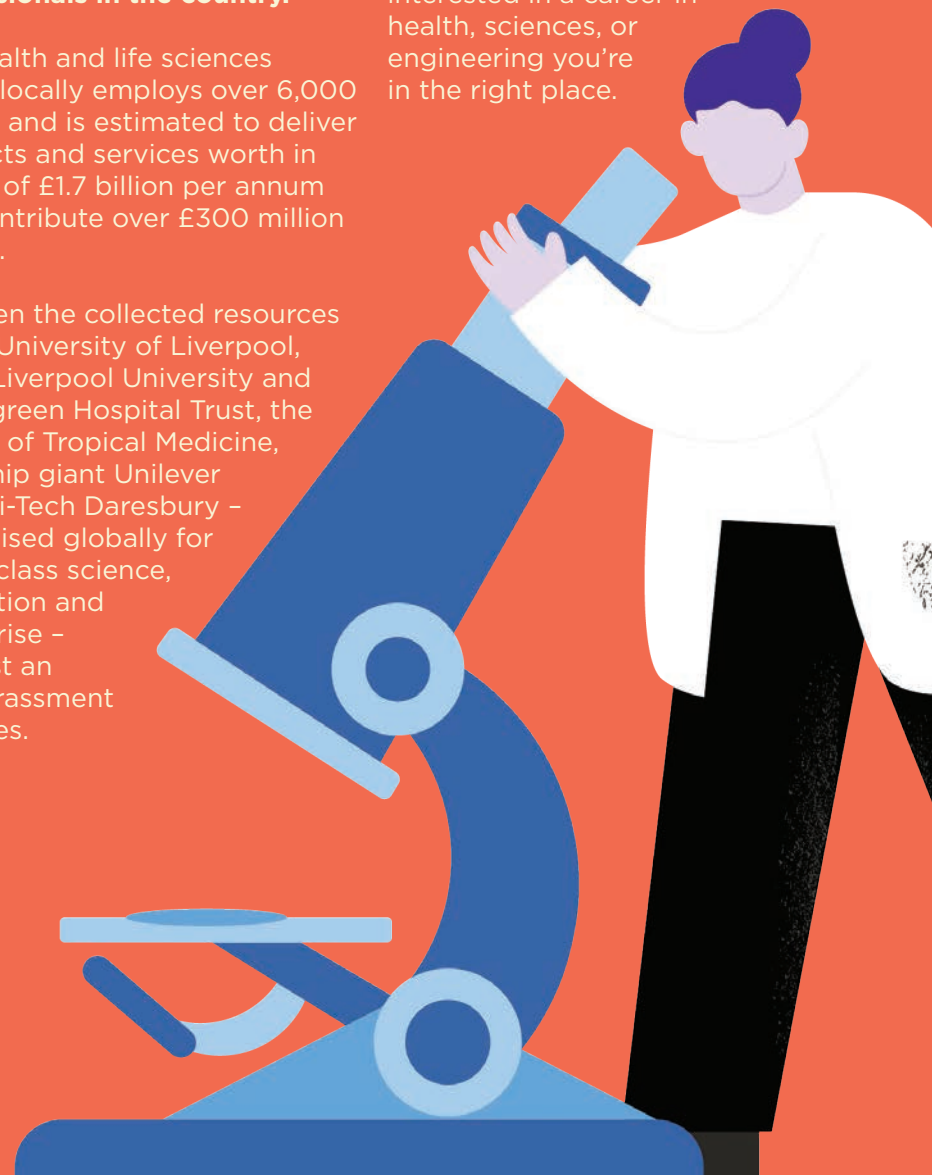
## Our specialisms

**Liverpool City Region houses one of the largest concentrations of science and healthcare professionals in the country.**

The health and life sciences sector locally employs over 6,000 people and is estimated to deliver products and services worth in excess of £1.7 billion per annum and contribute over £300 million in GVA.

Between the collected resources of the University of Liverpool, Royal Liverpool University and Broadgreen Hospital Trust, the School of Tropical Medicine, blue chip giant Unilever and Sci-Tech Daresbury – recognised globally for world-class science, innovation and enterprise – we host an embarrassment of riches.

We know now more than ever the pivotal role these sectors play in our daily lives. If you're interested in a career in health, sciences, or engineering you're in the right place.



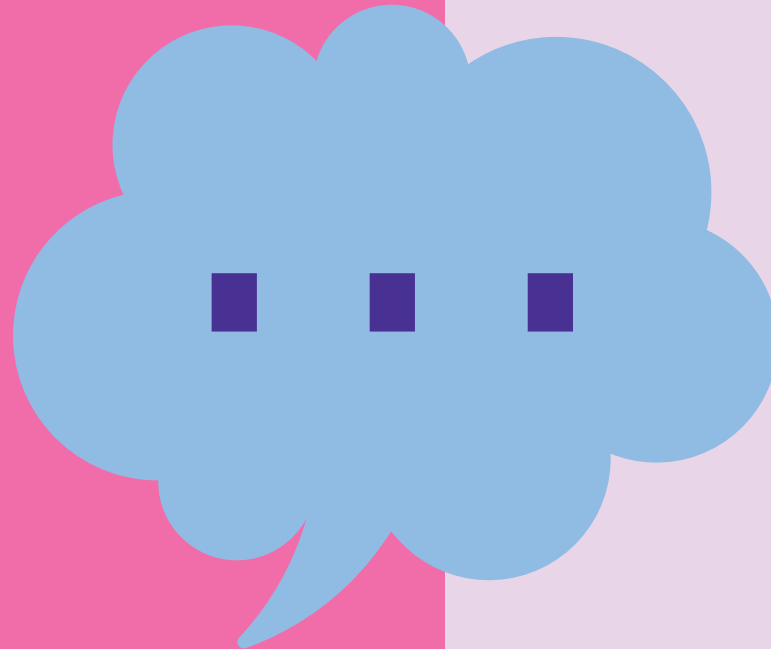
# UTC facilities

In the heart of Liverpool's bustling creative and digital district, we're housed in a Grade II listed former warehouse. The lofty spaces of the warehouse give us unparalleled flexibility and scale.

We're fully wheelchair accessible throughout the building, with disabled toilets on every floor and home to:

- **state-of-the-art innovation and science labs**
- **a dedicated health suite, with real hospital beds and a 'Sim Man' – a fully functioning dummy patient**
- **a games design artwork suite**
- **a programming suite with private professional network**
- **access to the latest software and hardware used within the creative and digital industries**
- **a 120-seat lecture theatre and cinema**

- **an engineering suite with design, printing and production facilities**
- **an art and media studio and gallery space**
- **a fitness suite and gym, equipped with the latest sports kit**
- **flexible teaching areas alongside our core science facilities**
- **an animal management centre, home to rabbits, lizards, geckos and more...**
- **a ground-floor café and co-working space for sixth form students**



# Student story

## Grace's journey from Liverpool Life Sciences UTC to medical school

Former UTC student Grace is one of our Year 13 alumna, who's achieved something incredibly rare: gaining admission to study medicine at Plymouth University with a Triple Applied Science BTEC qualification.

Grace joined us in 2021, after moving from Nigeria. She arrived at the UTC alongside her brother Daniel, and started in Year 11. After completing her GCSEs, thoughts turned to A-levels. "Initially I wanted to do A-level Chemistry, Biology and Psychology," she says, aiming to pursue a career in medicine. Yet her previous results and schooling in Nigeria meant she couldn't pursue an A-level route, choosing instead a BTEC in Triple Applied Science, covering Physics, Chemistry and Biology. "It was a mix of coursework and exams, but the grading system was tough – it was challenging to achieve top marks across the board. Nevertheless, I worked hard and passed my exams," she adds.

"As I settled into my BTEC, Miss Chandler encouraged me, explaining that – while it's very rare – it's not impossible



to study medicine with a BTEC qualification. That gave me the motivation I needed to keep going and believe that I could turn a 'no' into a 'yes.'"

Plymouth University placed Grace on the waiting list for Medicine after her interview, before calling her in August to confirm she had a place on the medical programme. "It was incredible – I'm going to be a doctor," smiles Grace.

"I'm thinking about specialising in cardiology or becoming a cardiac surgeon, as I'm very interested in heart-related medicine. But beyond medicine, I also have other dreams. I want to be a businesswoman and eventually open a care home and pharmacy. I have big plans for my future – maybe I'll collaborate with the government on healthcare projects, or start small businesses. There's so much I want to achieve!"



## From MeDeVet to Oxford

**Life Sciences UTC student Holly is celebrating as she becomes the first in her family to attend university, with three A\*s in biology, chemistry and maths. Holly initially enrolled in the MeDeVet programme with aspirations in medicine, but discovered a newfound passion for chemistry, prompting a change in her academic direction.**

Holly's decision to pursue chemistry at university underscores the importance of exploring different pathways and finding the right fit for your academic and career goals. "Liverpool Life Sciences UTC provided me with so much support and guidance, not just with the academic side of things," she says. "Oxford wasn't on my radar until it was suggested to me, but I am so pleased I embraced the opportunity."

Holly's teachers have praised her rigorous approach to understanding complex concepts, attention to detail in practical experiments and ability to think critically and analytically. Principal Jill Davies adds: "Holly's journey exemplifies the spirit of exploration and growth we encourage," she says. "We're incredibly proud of her achievements and look forward to seeing her thrive as she pursues her passion for chemistry."

Liverpool Life Sciences UTC remains dedicated to supporting students like Holly, ensuring they have the tools and opportunities to succeed in their chosen fields. The rarity of securing one of only two places at Corpus Christi College, Oxford, highlights Holly's exceptional achievement and the bright future ahead of her in the field of chemistry.



# Our team, Governance and Trust

## Our team

Our dedicated team of teaching staff has a wealth of industry experience, as well as links to local health and science organisations. With years of experience under their belts, our teaching team are experts in their respective fields, and are part of a wider network of science and healthcare professionals.

We teach across the spectrum, from science, maths and English, to business, health and social sciences, PE, humanities and modern foreign languages. Our students benefit from a high standard of teaching, encompassing all of the traditional curriculum subjects as well as a range of focused science and healthcare subjects from our team of specialist staff.

The safety of our students is imperative. We provide a safe space for students to learn, explore and push boundaries, and our dedicated Director of Inclusion ensures our students receive all the support they need whilst removing any barriers to learning. Our pastoral team plays a central role in students' personal and academic development whilst our SEND team supports all students to achieve their potential.

## Governors

Our governing body drives the vision and ethos of our school, monitors educational and financial plans, and provides support to the school in a way that is tailored to our priorities. Our governing body consists of ten governors drawn from our sponsor and partner organisations, parents, staff and local stakeholders to create a balanced group with the right experiences, skills and connections to support the school in achieving exceptional performance.

## Northern Schools Trust

Life Sciences UTC and The Studio School are part of the Northern Schools Trust. The Northern Schools Trust is committed to providing life changing opportunities through education for every student. It works to support this through personal development, quality leadership and investment in teaching and learning.

[northernchoolstrust.co.uk](http://northernchoolstrust.co.uk)

# Our partners

Working with employers, universities and the public sector is important to us for many reasons. The real-world experience that it affords our students is second to none. And by working with a carefully curated collection of award-winning partners, our students graduate from us with an unrivalled bank of knowledge and experience, to help them on their way...

- Stay ahead of the curve and develop the niche skills our local award-winning science companies need, gaining the relevant skills that employers seek out
- Listen to and learn from worldclass speakers in our series of masterclasses and seminars
- Make a real difference – get involved in groundbreaking research projects
- Join regular visits to external organisations and take part in work placements with our partners

Autodesk

Astrazeneca

Ford

The Very Group

Beverston Engineering

Bac

Unilever

NHS

# KS4 GCSEs

Maths and English form the backbone of every student's journey from GCSEs to advanced studies. At the UTC, the English pass rate surpassed the national average by 8%, with 53% of students achieving a grade 5 or higher. In Maths, while the pass rate mirrored the national standard, our students exceeded the percentage of grade 7 or above by 4%.



# GCSE curriculum

## All students study the core subjects:

- **English Language and Literature**
- **Mathematics**
- **Science (Double or Triple award)**

Alongside the core curriculum subjects, our students select a range of optional subjects, which give you a good foundation if you want to specialise in a certain area in sixth form. Our subjects have been designed in conjunction with our university and industry partners, to make sure that students get the best possible education options, for the roles of the future. We've worked closely with our partners to cover the key skills, experiences and attributes needed in the creative, tech, science, engineering and healthcare sectors. You'll have everything at your fingertips to make an informed decision about the best route through education, playing to your personal strengths and interests. At the end of the Key Stage 4 programme, you'll have the option to progress to our sixth form, selecting A Level and BTEC Options for Year 12.

## The core curriculum also includes:

- **Project-based learning**
- **Enrichment**
- **Wellbeing**
- **Careers education, information, advice and guidance**
- **Personal, social health, citizenship education**
- **Physical education**

## In addition, students choose from our specialist BTEC and GCSE options:

- **Animal care**
- **Chemistry**
- **Combined sciences**
- **Physics**
- **Engineering**
- **Biology**
- **Health**
- **Languages**
- **Level 2 sport and physical activity**

## Don't be limited to what you learn

UTC students can also choose to study any GCSE subject offered at our sister school, The Studio.

# Results

## 100%

4+ in separate sciences - biology, chemistry and physics

## UTC English

outcomes are higher than national at both 4+ and 5+

## UTC Maths

9-7 21% compared to 12% locally and 17% nationally

## 100%

## 4+ Graphics and 100% 4+ Photography

UTC students can also choose to study any GCSE subject offered at our sister school, The Studio.



# Destinations

## Destinations this year include:

University of Liverpool -  
Aerospace Engineering

University of Keele -  
Forensic Science

University of Aberdeen -  
Applied Molecular Biology

University of Oxford -  
Medicine

Manchester Metropolitan University -  
Medicinal and Pharmaceutical Chemistry

University of Manchester -  
Law

Liverpool John Moores University -  
Mechanical Engineering Nursing

University of Liverpool -  
Adult Nursing

University of Bath -  
Biomedical Sciences

# Enrichment

Fancy learning to code in between classes? Want to build a 1,000mph jet powered car from scratch, in your spare time? Maybe you'd like to practise your drama skills? Our enrichment activities have got you covered...

Enrichment activities run alongside our classes, offering students a wide range of exciting and interesting opportunities to build on their experience, or learn a new hobby or skill.

Our programme of enrichment activities goes hand in hand with a strong and enviable UCAS application.

## Competitions

- Unilever Inspire Programme
- Business of Science Innovation Awards
- Big Bang Science, Engineering and Tech Competitions
- UK Bebras (organised by the Raspberry Pi Foundation and delivered in partnership with the University of Oxford)

## Activities

- STEAM lessons
- Masterclasses from industry leaders, local and national
- Arid adaptations investigation group
- Telling my Story workshops
- Scanning Electron Microscope loan
- Merseyside Young Life Scientists and Healthcare
- Top of the Bench competition
- Apex NHS digital Challenge competition.
- Medical Simulation suite - SIMMAN and Annie dolls
- Global Innovation in Sustainability Summit
- Carnegie Medal Shadowing, both writing and illustration
- Banned Book club
- Classics in class and trips
- Football
- Combined Cadet Force (CCF)
- Art Club
- Book Club
- Reading Club
- Alfred H Knight - Lab Metalytics Project
- AstraZeneca Vaccine Challenge
- Clinical Skills for Healthcare

## Support

- Mental Health Champions

# Pastoral support

Wellbeing is a vital part of the work we do with our students. We'll work with you to develop your social and emotional skills, knowledge and behaviours that will help you to be resilient and happy. Advocacy, support, signposting and advice is available throughout the school from our specialist, experienced, pastoral team.

## SEN Support

We believe that all students, no matter their individual needs, are entitled to an inclusive academic and vocational education that allows them to explore their passions and thrive in school.

We have a dedicated SEND team to support our students' needs including a specialist SEND Co, deputy SEND Co and Learning Support Assistants.

# Changing schools

## Can I change schools?

Yes! You can now change schools at 13, 14, or 16. The government changed things back in 2010, allowing you to choose whether or not to stay at your current school. You can also join us at 16, after you've finished your GCSEs. If you're in Year 8 or 9 now, instead of staying at your school for years 9, 10 and 11, you can enrol at Liverpool Life Sciences UTC or The Studio School to choose and complete your GCSEs. Or you can join us for years 12 and 13.

## When can I join?

If you're in Year 8 now, you can apply to join our Ignite Programme in September.

If you're in Year 9, you can apply to join our Key Stage 4 programme, starting at the beginning of Year 10.

If you're currently in Year 11, you can apply now to be a Year 12 entrant.



# Sixth Form

At Liverpool Life Sciences UTC, sixth form students receive a unique educational experience. Alongside a core curriculum of A Levels and vocational qualifications, students benefit from the expertise of business partners who help shape their learning. These partners define industry skills needs and offer real-world projects, masterclasses, and training to ensure students are prepared for future careers.

# Enrichment

Fancy learning to code in between classes? Want to build a 1,000mph jet powered car from scratch, in your spare time? Maybe you'd like to practise your drama skills? Our enrichment activities have got you covered...

Our enrichment activities go hand-in-hand with a strong UCAS application and wide-ranging extra curricular interests. Running alongside classes, our enrichment programme offers students a wide range of exciting and interesting opportunities to build your experience, learn a new hobby or try a new skill. With everything from coding to jet-powered cars on the agenda, and drama to art, book and reading clubs, you're guaranteed to find an activity to immerse yourself in.

## Activities

- STEAM lessons
- Masterclasses from industry leaders, local and national
- Arid adaptations investigation group
- Scanning Electron Microscope loan
- Merseyside Young Life Scientists and Healthcare
- Apex NHS digital Challenge competition
- Medical Simulation suite -SIMMAN and Annie dolls
- Global Innovation in Sustainability Summit
- Carnegie Medal Shadowing, both writing and illustration
- Bibliophiles United!
- Classics in class and trips
- Combined Cadet Force (CCF)
- Further Maths
- Art Club
- Book Club
- Reading Club
- MeDeVet Programme
- Ford Data Dashboard Project - Microsoft Power BI
- Employability Skills Challenges
- IRIS - Elephants on the Move Research Project
- Alfred H Knight - Lab Metalytics Project
- AstraZeneca Vaccine Challenge
- Clinical Skills for Healthcare
- Baltic Research Institute
- EPQ Research Programme
- Primary Schools Outreach Programme
- Baltic Research Journal

# Project-based learning

**Liverpool Life Sciences UTC champions project-based learning (PBL) as an integral part of our curriculum, placing real-world relevance at the heart of education. Through PBL, students actively engage in complex, cross-disciplinary projects that mirror challenges in health, science, and technology industries. This approach prioritises skills such as collaboration, critical thinking, and innovation, essential for careers in the life sciences.**

At the UTC, students work in specialist labs, often with input from industry partners, providing them with valuable insights into professional standards and expectations. The school's Baltic Research Institute (BRI) exemplifies this, allowing students to conduct

## Support

- Mental Health Champions
- Trips to Cambridge/ Oxford open days
- Partnership with Aspire Liverpool; support applications to top universities
- Tutoring with Liverpool University for eligible KS5 students
- Mental Health Champions

original research, gaining practical laboratory experience and feedback from experts.

The UTC's project-based learning (PBL) approach has been acknowledged by Ford Philanthropy as a key part of initiatives to support Halewood and the Liverpool City Region. One funded project saw the Maths team guiding Year 11 students in developing data dashboards using Microsoft Power BI, enabling them to analyse extensive scrap data sets from Ford for 2022 and 2023. This initiative not only supports local industry needs but also enhances students' practical data analysis skills in a real-world context.

Liverpool Life Sciences UTC's PBL framework is designed not only to achieve academic success but to equip students with the skills, confidence, and professional readiness that are increasingly valued in scientific and healthcare fields. This distinctive approach ensures that graduates are well-prepared to meet both academic and vocational demands, making the UTC a leader in future-focused education.

# What we do: Pathways

**We use pathways to help you visualise the best route into the career you're interested in, and support you in making the right study choices at Year 12.**

We work closely with you and your parents to make sure you opt for the best combination of subjects to help you achieve your dreams. And, if you're unsure about your future goals, we can advise you on how best to keep your options open and find out what really inspires you.

We also offer our students a variety of project-based learning, placements and masterclasses, so you get a real taste for the jobs and environments that you're passionate about.

We offer different pathways, giving you a chance to explore wide ranging subject areas, coupled with unforgettable, real-life experience:



## **Exploring medicine/ dentistry/ veterinary**

This pathway will allow you to experience work placements at the Royal Liverpool Hospital, masterclasses and projects that teach the basics of biomedical sciences designed to help you achieve your goals. You will have support for UCAS and preparing for university admissions tests.



## **Exploring life sciences**

This pathway gives you knowledge and expertise in technical laboratory work, and has evolved to support the need for more specialists in this area. You'll gain the numerical, analytical and communication skills that many key employers look out for.



## **Exploring applied science**

This pathway will offer practical support in building laboratory, analytical and numerical skills. It will help you to develop communication and teamwork skills. This will be an advantage when applying for university or apprenticeships.



## **Exploring T-level design and development for engineering and manufacturing specification**

This pathway will help you build the skills of the future. It is ideal for students who enjoy product design, problem solving, lab work, research, equations and analysis. You will learn new techniques and software that will help you when applying for university or apprenticeships.



## Exploring social sciences

The social sciences pathway allows you to understand how and why people behave as they do. You can learn more about the law in criminology, the mind in psychology or society in sociology. It offers some fantastic trips, masterclasses and projects.



## Exploring health and care

On this pathway you'll examine a range of topics including anatomy, psychology, mental health and infectious diseases. Your learning will be backed up with hands on simulations in the health suite and on work placements, including at the Royal Liverpool University Hospital.

# Results

Our results for KS5 are above average both locally and nationally. Our students typically excel in both A Level and BTEC programmes.

**Ava achieved D\* D\* D in BTEC Health and Social Care**

**Abdullah, who was part of the MeDeVet Pathway, achieved A\*AA in Maths, Biology and Chemistry**

**Grace achieved D\* D\* D\* in BTEC Applied Science**

**Esther achieved DDD in BTEC Health and Social Care**

**Holly secured A\* A\* A in Chemistry, Biology and Maths**

# Destinations

We take pride in preparing our students for the world of work and the jobs of tomorrow, giving you the skills to be successful in the future. We also keep in touch with our previous students to find out how they're doing in whatever path they follow. Through our alumni, we get plenty of relevant, up-to-date recommendations and support for our current crop of students.

Our degree destinations include:

<b>University of Oxford - Medicine</b>	<b>Durham University - Economics</b>
<b>University of Liverpool - Biological Sciences</b>	<b>-</b>
<b>University Centre Reaseheath - Veterinary Nursing</b>	<b>Liverpool John Moores University - Civil Engineering</b>
<b>University of Liverpool - Dental Surgery</b>	<b>University College London - Medicine</b>
<b>University of Liverpool - Zoology</b>	<b>-</b>
<b>Keele University - Midwifery</b>	<b>University of Oxford - Chemistry</b>
<b>University of Liverpool - Accounting and Finance</b>	<b>Liverpool John Moores University - Mechanical Engineering</b>
<b>University of Salford - Pharmaceutical Science</b>	

Examples of Apprenticeships and Degree Apprenticeships 2024:

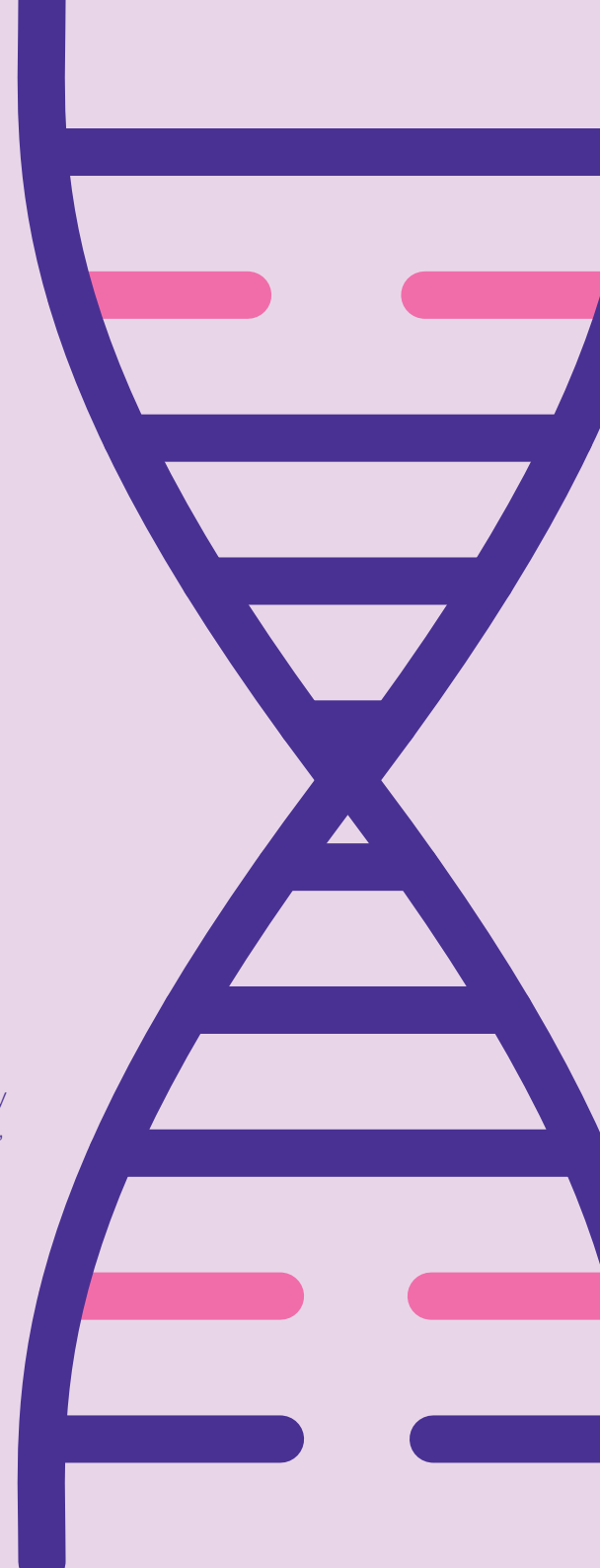
<b>Sellafield - Engineering &amp; Maintenance Degree Apprenticeship</b>	
<b>United Utilities - Laboratory Scientist Degree Apprenticeship</b>	
<b>Ford - Electrician Apprenticeship</b>	<b>Rothschild &amp; Co - Wealth Management Apprenticeship</b>

# Careers

As well as building up a unique and strong skills base, our students benefit from impartial careers advice and guidance through our Careers Advisor and Pathway Leads.

Our close connection to local universities and colleges means our students have the best possible advice when it comes to university admissions.

Of course, we understand that not all of our students want to pursue a university education; our Guidance Team is on hand to talk our students through life after the UTC, whether that may be university, an apprenticeship, or a job upon graduating.



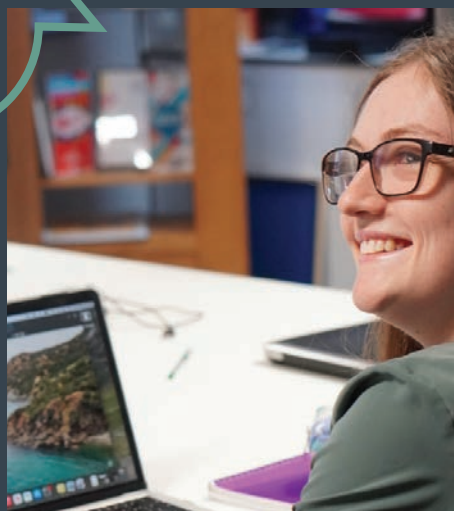
# Wellbeing

Wellbeing is at the heart of the work we do with students. We will work with you to develop your social and emotional skills, knowledge and behaviours that

will help you to be resilient and happy. We have a specialist, experienced, pastoral team who can offer advocacy, support, signposting and advice.



**At Liverpool Life Sciences UTC, we believe that well-being is the cornerstone of success. By creating a supportive, inclusive community, we enable each student to flourish both personally and academically, equipping them to lead with resilience, purpose, and compassion in every aspect of their lives.**



## Dr John Dyer

Dr John Dyer has been a science teacher at the UTC for six years, and works with students on a range of projects that span the sciences; one of the main projects that John supports is the Baltic Research Institute, which is the UK's first student-led research body for pre-university students. "The UTC places great importance on the development of skills that link to research and careers in the life science and healthcare sectors," says John. "There is a genuine commitment to allowing students to work on long-term practical research projects that aim to solve real-world problems and that are led by the students themselves."

Allowing students to immerse themselves in the world of research during their time at the UTC – as well as solving real-world problems as part of the curriculum – are some of John's favourite things about teaching science at the UTC. "The freedom to design and deliver a more creative, skills-based curriculum that better reflects what it is like to be a scientist. At times it feels more like having a research group than a class, with the students working on a wide range of exciting projects and trying to solve real world problems," he says.

## Baltic Research Institute



The Baltic Research Institute (BRI) is the UK's first student-led research institute in the UK. Launched in 2018, the BRI is the brainchild of several UTC students, who have been carrying out pre-university research in the areas of science, psychology and humanities. The collective of UTC students that make up the BRI have created two editions of the Baltic Science Journal, which showcases some of the work that the students are carrying out during year 12 at the UTC. The journal, which is an open source look at the research conducted, aims to show that young people are keen and able to advance knowledge in higher level research.





# How to apply

# It's easy to apply to join Liverpool Life Sciences UTC

## Apply online at

[lifesciencesutc.co.uk/apply](https://lifesciencesutc.co.uk/apply)  
or find more details at [lifesciencesutc.co.uk](https://lifesciencesutc.co.uk)

## Industry Insight Days:

Our Industry Insight Days allow students to work on employer-driven projects solving real-world problems. We bring employers into the building so that students learn more about opportunities and benefit from their knowledge, skills and expertise.

They help develop technical and, in particular, soft skills in our students, such as teamwork, leadership, problem solving and communication.

Our employer partners include: AstraZeneca, Liverpool School of Tropical Medicine, the NHS, University of Liverpool, MAST, BIMA and Ford.

**Contact us: 0151 230 1320**  
**[Student.Services@Lifesciencesutc.co.uk](mailto:Student.Services@Lifesciencesutc.co.uk)**  
**[@lifesciencesutc](https://www.lifesciencesutc.co.uk)**

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Liverpool Life Sciences UTC, CUC Building,  
Greenland Street, Liverpool L1 0BS



**Liverpool**  
**Life Sciences UTC**

[lifesciencesutc.co.uk](https://lifesciencesutc.co.uk)