ENERGY COAST UTC

EMPOWERING FUTURE GENERATIONS

ENERGY COAST UTC SIXTH FORM

ENGINEER YOUR FUTURE!

Welcome from the Head of School

"Welcome to the Energy Coast University Technical College- a forward-thinking and innovative educational establishment which ensures that all of our students receive a first-class technical and academic education which will set them apart from others as they journey onto their future destinations!

At Energy Coast UTC we deliver academic excellence alongside a world class technical and practical education, ensuring that all of our students excel in employability skills by working directly with local and national employers on a range of projects.

The team here at Energy Coast UTC really do always go the extra mile to secure the best possible outcomes for students in everything they do. It is a privilege to work with a team of professionals who always put the students at the heart of every single decision they make with regards to education, technical training, careers guidance, employer engagement opportunities, destinations, personal development, pastoral support...the list is endless.

The impact of their unwavering support is evident with our impressive destinations: over 85% of our alumni progress onto apprenticeships with local employers who they have had the opportunity to learn about and work alongside during their time at Energy Coast UTC, with the remainder going on to university.

A new and exciting future awaits; our expert team very much look forward to meeting you and welcoming you into our supportive and aspirational school community.

So...what are you waiting for?

It's time to Engineer Your Future at Energy Coast UTC!"

Kerryann Wilson
Head of School

@Energy Coast UTC on all platforms

Keep up to date!

Our vision is to support every student to realise and achieve their full potential. Our curriculum is designed with this in mind! By designing a transformative technical curriculum which is underpinned by academic excellence we ensure that students are fully prepared for the world of work and their next steps; both academic and professional. By working with our impressive range of employer partners and industry professionals the opportunities provided for our students are unique and allow them to fully explore what they wish to achieve in the future!

Our aim is to prepare students to meet the demand for their future destinations as highly skilled engineers and civil engineers- not only within our home county of Cumbria, but also the world!

OUR VISION & AIM

OUR VALUES

KINDNESS is an important trait that we should all strive to possess. We expect our students and staff to be considerate, compassionate, and understanding towards others. Kindness allows us to build meaningful relationships and foster a sense of community in our school.

COMMITMENT is a crucial element in achieving success. Students should be dedicated to their work to achieve their goals. Commitment is a mindset that requires discipline, hard work, and perseverance. With a strong sense of commitment, students can achieve their goals and reach their full potential in all aspects of their lives.

BELIEF in yourself is a large factor in empowering you to perform to your highest levels and surpass expectations. This self-belief allows students to overcome obstacles and challenges that may have seemed insurmountable before. It allows us to see opportunities where others may only see roadblocks, and to approach difficult situations with a positive and proactive mindset.

EMPLOYER PARTNERS

> *'Pupils enjoy learning in well-equipped engineering suites. They take part in high-quality work experience with prestigious employers.'*
> *Ofsted 2023*

The partnerships we have developed with local and national employers provide exceptional, real-world experience to our students throughout their studies. These partnerships offer unrivalled access to work experience, mock experience interviews and targeted career advice; meaning they teach you the knowledge and skills that employers actively seek.

One of our key employer partners is the construction and infrastructure development giant Morgan Sindall. Currently Morgan Sindall sponsor the Energy Coast UTC uniform, allowing students to receive a full free set of uniform.

Who we work with:

amentum, ARUP, Balfour Beatty, CORE Nuclear Solutions, WILLIAMKING, Gen2 A City & Guilds Business, DOOSAN, ENERGUS., JACOBS, HOLMEN IGGESUND, McMENON, FORTH, KAEFER, National College for Nuclear, MORGAN SINDALL INFRASTRUCTURE, NATIONAL NUCLEAR LABORATORY, MISSIONCX, ROYAL NAVY, NDA, NUVIA, Sellafield Ltd, KBR, TSP ENGINEERING, FIRPRESS, Westlakes

92%
of Y13 leavers go on to Higher Education, Degree Apprenticeships or full-time employment

94%
of Y11 leavers go on to Further Education or Apprenticeships

30
of our students are awarded apprenticeships with Morgan Sindall Infrastructure each year

MORGAN SINDALL INFRASTRUCTURE

Morgan Sindall Infrastructure has announced a substantial investment in the Energy Coast University Technical College, solidifying an almost decade-long partnership and enriching the educational landscape in Cumbria.

Further funding from Morgan Sindall will support the development of civil and electrical engineering facilities at our UTC and create opportunities for 30 apprentices annually in support of Morgan Sindall Infrastructure's commitment to enhance the wider nuclear skills landscape in the region. Further

How does this partnership benefit our students?

Morgan Sindall Infrastructure have committed to taking 30 apprentices annually from the Energy Coast UTC to develop the golden threads between industry and education.

Each week, Morgan Sindall run an Employer Project with our students and host work experience to provide them with a real-life understanding of the construction industry. This not only helps to prepare our students for future employment opportunities but also gives them a chance to develop their skills and confidence in a professional environment.

How does this partnership benefit our staff?

Teachers at Energy Coast UTC can benefit from the expertise of Morgan Sindall's staff and trainers, enabling them to bring new and innovative teaching methods into the classroom, to enhance the learning experience of our students.

The investment into the Energy Coast UTC's facilities allows our students to continue using up-to-date, industry standard machinery, preparing them for the world of work.

> *There are not many education facilities that actually train people ready for work, and that's what the UTC does. That's why the students from the UTC stand out so much. When you see the the students coming out of the UTC, they're ready for industry, they've been trained and stand out among the employable people in Cumbria.'*
> *....Peter Musk, Morgan Sindall Infrastructure and .....UTC Governor*

MORGAN SINDALL INFRASTRUCTURE

SUPPORT AND WELLBEING

Energy Coast UTC has created a supportive, inclusive and nurturing learning environment for all our students. The mental and personal wellbeing of our students is just as important as their academic success, and we will provide the support for all our students to thrive.

We have an experienced pastoral team consisting of a dedicated Head of Year and Attendance and Wellbeing Officer for each year group to build positive relationships with our students and their parents and carers.

Students will also have contact with their form tutor, and have access to their Head of Key Stage for further support.

Our staff have a wealth of experience and expertise across a range of industries, this, paired with our huge external network of employers allows students to have bespoke guidance towards their chosen career.

Students will benefit from enrichment and reward activities, employer engagement, mock interview days and work experience programmes during their time at the Energy Coast UTC.

We believe that effective partnerships between home and school are the key to success. At the beginning of every school year, we offer parents the opportunity to meet with their child's tutor to discuss the year ahead and set clear expectations, alongside parents' evenings throughout the year.

We have a zero-tolerance policy towards bullying and ensure all students have a voice, and that every voice is valued.

'Energy Coast UTC is a welcoming and nurturing place for pupils to learn. Pupils are happy here. They told inspectors that they are treated as individuals and they can be themselves.'
Ofsted 2023

EMPLOYABILITY

Employability at the UTC is truly embedded across the curriculum. These additional sessions each week will provide the platform our students need to embolden their aspirations and prepare them for a competitive job market, making sure they reach their potential and beyond.

SKILLS BUILDER

Essential skills play a crucial role in shaping our future career goals, enabling us to perform any job, anywhere. The more robust our essential skills are, the greater our chances of pursuing the job roles we desire. At the UTC, we intentionally incorporate the essential skills from the Skills Builder framework into every lesson and conversation. We do this because our employer partners, such as Morgan Sindall and Sellafield, recognise their value. More importantly, we utilize these skills to cultivate our students into employable young individuals who employers view as their future workforce.

STUDENT LIFE

School day
The school day starts at 08:30am everyday and students finish school at 3:30pm between Monday-Thursday, and 1:00pm on Friday. Sixth Form students will follow their individual timetables within these hours.

'Pupils, including those in the sixth form, spoke highly of the careers guidance that they receive. This includes learning about apprenticeships and participating in well-designed visits to employers and universities. This allows pupils to make informed choices about their future career pathways.'
Ofsted 2023

Free School Meals
Students who are eligible for free meals, according to the Government's criteria, can apply for these from their local council who will notify us of your eligibility.

Uniform
All students are provided with a full free set of uniform upon entry into Y10 or Y12, paid for by our sponsor Morgan Sindall. Further information about the Energy Coast UTC uniform can be found on our website.

16-19 Bursary
Students in Sixth Form who are are experiencing financial hardship whilst studying at the Energy Coast UTC may be entitled to the 16-19 bursary to help with transport, trips and course related equipment. Further information can be found on our policies section of our website.

'Students successfully move on to education, employment or training, including apprenticeships.'
Ofsted 2023

Pupils benefit from a vast array of activities that help them to develop their confidence, such as the Combined Cadet Force, sports clubs, visits and overseas trips.'
Ofsted 2023

Outside the classroom
We offer various extra-curricular clubs from sporting clubs like Rugby and Football, to our Combined Cadet Force (CCF). Curriculum departments also offer an array of trips and residentials that students have the opportunity to attend during their time with us.

PATHWAYS

The Energy Coast UTC Sixth Form offers a variety of pathways to allow progression to degree apprenticeships, university or employment. Below are the pathways we provide, with further detailed information about each course on the following pages.

T-Levels
You will study one of the following:

- Engineering and Manufacturing
- Construction
- Business
- Digital

Entry requirements: 5 GCSEs at grades 4-9*

T-Levels are a blend of classroom learning and on-the-job learning with a 45-day industry placement, resulting in a qualification equivalent to 3 A Levels.

Level 3 Pathway
You will study all of the below:

- L3 Applied Science
- L3 Engineering
- L3 Business

Entry requirements: 5 GCSEs at grades 4-9*

Resit Pathway
Part-time provision suitable for students who need to resit English and maths.

Pathway to Apprenticeship
Suitable for those needing to resit either English OR maths GCSE.

Students will study a Level 2 Certificate in Engineering alongside the resit qualification.

*must include English and maths at grade 4

Why choose a T-Level?
This new qualification is designed to provide students with a clear pathway to skilled employment or progression to higher education.

T-Levels are a great option for students who want to gain practical skills and experience in a particular industry while still receiving a high-quality education. The industry placement component of the program allows students to apply their classroom learning in a real-world setting and develop valuable workplace skills.

Students will attend school 4-days a week for classroom based learning and attend their work placement 1-day a week or in a block placement.

We have various local and national companies signed up for the 45-day industry placement ready to provide students valuable insights into their industry!

T-LEVEL CONSTRUCTION

DESIGN, SURVEYING AND PLANNING

Course content

In the first year of study, learners will cover core content which covers the underpinning knowledge, concepts and skills.

First Year Core topics include:
- Health and safety
- Science
- Measurement
- Building technology
- Digital technology
- Construction mathematical techniques
- Design
- Construction and the built environment industry
- Sustainability
- Project management

In the second year of study, learners will focus on an occupational specialism from the below:
- Site investigation requirements of a project
- Planning of civil engineering projects
- Site survey requirements of a project
- Selection of techniques and materials for a civil engineering product

Entry requirements

5 GCSEs at grades 4-9 including English literature or language and maths

Career progression

Successful completion of this course can lead to higher level apprenticeships or employment with major construction-engineering companies, or higher education at a University in a wide range of subjects such as construction and the built environment.

There are many other career pathways that engineering skills are useful for including Project Management and Commercial Law. Sellafield, for example, remains the world's most complex nuclear facility with a range of operations continuing there such as decommissioning, reprocessing and nuclear waste management and work continues towards a nuclear new build in this part of the country.

> *"Leaders have developed an appropriate curriculum, including in the sixth form, that meets the needs of local employers in areas such as engineering and construction.'*
> *Ofsted 2023*

T-LEVEL ENGINEERING & MANUFACTURING

MAINTENANCE, INSTALLATION AND REPAIR

Course content

In the first year of study, learners will cover core content which covers the underpinning knowledge, concepts and skills.

First Year Core topics include:
- Health and safety principles
- Engineering and manufacturing
- Mathematics and science for engineering and manufacturing
- Materials and their properties
- Mechanical principles
- Electrical and electronic principles
- Project and programme management
- Business, commercial and financial awareness.

In the second year of study, learners will focus on an occupational specialism from the below:
- Construction and operation of standard power conversion systems
- Application of component classification, numbering and referencing systems
- Skills to select and use tools, equipment, machinery and technology safely and effectively to complete maintenance, installation and repair activities

Entry requirements

5 GCSEs at grades 4-9 including English literature or language and maths

Career progression

Successful completion of this course can lead to higher level apprenticeships or employment with major engineering companies, or higher education at a University in a wide range of subjects such as engineering, marine engineering, mechanical engineering or electrical power.

New opportunities in Nuclear waste and decommissioning means that West Cumbria could enjoy £90billion of investment in energy related projects and nuclear decommissioning in the next 15 years.

> 'Leaders, the chief executive officer (CEO), and governors are highly ambitious for all pupils...they enable pupils to develop into well-rounded individuals who are ready for the world of work.'
> *Ofsted 2023*

TL

T-LEVEL BUSINESS

MANAGEMENT AND ADMINISTRATION

Course content

In the first year of study, learners will cover core content which covers the underpinning knowledge, concepts and skills.

First Year Core topics include:
- Business context
- People
- Quality and compliance
- Finance
- Policies and procedures
- Project and change management
- Business behaviours

In the second year of study, learners will focus on an occupational specialism, either Team Leadership and Management or Business Improvement.

Entry requirements

5 GCSEs at grades 4-9 including English literature or language and maths

Career progression

Successful completion of this course can lead to higher level apprenticeships in a business/management or higher education at a University in a wide range of subjects such as HR, management, finance or marketing. This course can also lead on to employment opportunities within various industries.

Occupational specialism option one

Team Leadership and Management
- Lead, Manage and Develop individuals and teams to deliver outcomes
- Build relationships with colleagues, customers and stakeholders
- Deliver Core operational tasks and plans
- Manage and implement projects
- Apply governance and compliance requirements

Occupational specialism option two

Business Improvement
- Acquire and protect data to support the improvement process
- Analyse data to identify opportunities for improvement
- Engage stakeholders in discussions on business processes and improvement.
- Identify, propose and plan improvement solutions.
- Monitor and report the implementation of business improvement activities.

T-LEVEL DIGITAL

Course content

In the first year of study, learners will cover core content which covers the underpinning knowledge, concepts and skills.

First Year Core topics include:
- How digital technologies impact business
- The ethical and moral implications of digital technology
- Using data in software design
- Using digital technologies to analyse and solve problems
- Digital environments, including physical, virtual and cloud environments
- Emerging technical trends, such as Internet of Things (IoT), Artificial Intelligence (AI), Augmented Reality (AR), Blockchain, 3D printing
- Legal and regulatory obligations relating to digital technologies
- The privacy and confidentiality of personal data
- The technical, physical and human aspects of internet security
- Planning digital projects
- Testing software, hardware and data
- Digital tools for project management and collaboration

Entry requirements

5 GCSEs at grades 4-9 including English literature or language and maths

In the second year of study, learners will focus on an occupational specialism from the below:
- Digital infrastructure
- Cyber security
- Analysing data to support business outcomes
- Designing, implementing and testing software
- Changing, maintaining and supporting software

Career progression

Successful completion of this course can lead to higher level apprenticeships in cyber security or higher education at a University in a wide range of subjects such as cyber security engineer, ethical hacker, cyber security consultant, digital forensics analyst or cloud cyber security. This course can also lead on to employment opportunities within various industries.

LEVEL 3 PATHWAY

The Level 3 pathway consists of Applied Science, Engineering and Business to allow students to explore various subjects to support their future career decisions.

In addition to academic studies, students in the Level 3 pathway also have the opportunity to engage in work experience and employer projects, providing insight into various careers.

Pathway content

Applied Science

OCR Level 3 Cambridge Technical Extended Certificate
Equivalent to 1 A Level

Topics include:
- Laboratory techniques
- Scientific analysis and reporting
- The control of hazards in a laboratory
- Environmental surveying
- Environmental management
- Sustainable and renewable energy

Business

BTEC Level 3 National Extended Diploma
Equivalent to 0.5 of an A Level

Topics include;
- Exploring business
- Developing a marketing campaign
- Personal and business finance
- Investigating customer service

Engineering

BTEC Level 3 National Extended Certificate
Equivalent to 1.5 of an A Level

Topics include
- Engineering principles
- Mathematics
- Health and safety, team work and interpreting and creating computer-aided engineering
- Drawings
- Design and manufacture of products.

Entry requirements

5 GCSEs at grades 4-9 including English literature or language and maths

Career progression

Successful completion of this pathway can lead to employment in a laboratory setting or employment in a construction trade.

This pathway will also provide progression to apprenticeships and university in a range of subjects such as engineering, architecture, business, HR, marketing, environmental sciences or forensic sciences.

> *'Students in the sixth form value the opportunity to take on responsibilities, such as leading the charity and environmental societies.' Ofsted 2023*

PATHWAY TO APPRENTICESHIP (1 YEAR COURSE)

The Pathway to Apprenticeship is ideal for students who need to resit either their English language or math GCSE, whilst also studying towards a Level 2 Certificate in Engineering.

Students will study a broad range of subjects including bricklaying, manufacturing, joinery, plumbing, electrical, painting and decorating and engineering. Students will have a hands on experience sampling sectors where there is a national skills gap, facilitating the opportunity for various future employment pathways.

Entry requirements

5 GCSEs at grades 3/4 or equivalent

Career progression

Successful completion of this pathway allows students to move on to a T Level or the Level 3 Pathway, subject to entry requirements, or move into an apprenticeship or employment.

Why should I study this course?

Each student will have the opportunity to be involved with a bespoke employer project directly linked to the specialist areas they require for their desired future employment or apprenticeship. It will support students who have succeeded in their Key Stage 4 programme of study within civil engineering or engineering and those who wish to 'top up' their Level 2 achievement to progress on to employment.

GCSE RESITS

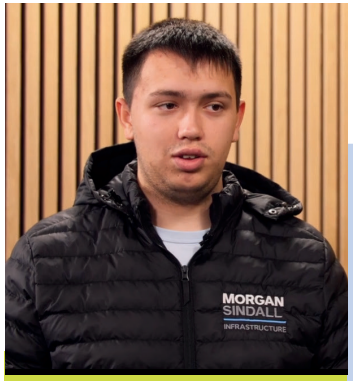
We also offer GCSE resits in English language and maths to students who worked hard at their first attempt in the summer exams and who are committed to working even harder throughout year 12, and to securing grade 4 or above in these important qualifications.

Upon securing the minimum entry requirements for the T Levels and Level 3 Pathway, students can progress onto these pathways, or move onto employment or apprenticeships.

DESTINATIONS

Energy Coast UTC prides itself on supporting all students to reach fantastic destinations. Our focus is on students gaining a range of skills and experiences during their time with us as well as achieving great grades that will help them to get to the university or apprenticeship of their choice.

Here are a few of our previous students and where they are now:



Jack joined Energy Coast UTC in Year 10 and continued into Sixth Form studying Applied Science, Engineering and DEC. He secured an apprenticeship with **Morgan Sindall Infrastructure** in Civil Engineering.

"Energy Coast UTC pushed me to get to where I am, helping me build my confidence and improve my skills that are all applicable in my role at Morgan Sindall. Working with Morgan Sindall during my time at UTC allowed me to experience different areas of the company to help me decide on the career path I chose."

MORGAN SINDALL INFRASTRUCTURE

Teagan joined Energy Coast UTC in Sixth Form studying A Level Physics, Mathematics and Chemistry. She has completed her **Masters in Physics** at the **University of Liverpool**, receiving a **First Class Honours.** Teagan was also the recipient of the **HWB Skinner Prize** for the highest graded Master's thesis within the Physics Department for her academic year.

"I must repeat like I have done so with the several discussions I have had with UTC staff members since leaving, that I really owe a lot of this to attending the UTC. I had support unlike I had during secondary school, and to have teachers be confident in my ability to do science as a girl has really helped with paving my career path. My current career aim is to continue to climb the academic ladder, but it's still early days now."

UNIVERSITY OF LIVERPOOL

Lily joined Energy Coast UTC in Year 10 and continued into Sixth Form studying Applied Science, Construction and DEC. She secured a **degree apprenticeship** with **Willmott Dixon** as part of their Construction Design Management Trainee Scheme.

"UTC played a crucial role in my journey by equipping me with the technical knowledge required for my role at Willmott Dixon. The foundation I built at UTC has made the transition into my professional life much smoother. Understanding industry-specific terminology and concepts from day one has helped me integrate seamlessly into my role, giving me a sense of belonging and confidence in my abilities."

WILLMOTT DIXON

Lyla joined Energy Coast UTC in Year 9 on the accelerated programme and continued into Sixth Form studying Business, Engineering and DEC. She secured a **degree apprenticeship** with **Morgan Sindall Infrastructure** in Project Management.

"Being part of the accelerated programme has allowed me to progress on to my GCSE and A Level qualifications a year early, allowing me to enter the world of work and achieve my degree apprenticeship earlier than my peers. I'm grateful for the work experience and employer project opportunities I had during my time at Energy Coast UTC that provided me with these employer encounters."

MORGAN SINDALL INFRASTRUCTURE

Aaron joined Energy Coast UTC in Year 10 and continued into Sixth Form studying Applied Science, Engineering and DEC. He secured an apprenticeship with **Morgan Sindall Infrastructure** in Electrical Engineering.

"The work experience and mock interview experience I received during my time at Energy Coast UTC allowed me to be fully prepared for the world of work and succeed in my chosen career."

MORGAN SINDALL INFRASTRUCTURE

Archie joined Energy Coast UTC in Sixth Form studying Engineering, Computer Science and Cyber Security. He secured a **degree apprenticeship** with **Sellafield Ltd** in **Engineering Maintenance**.

"Energy Coast UTC helped me develop communication and management skills which is essential to my role. Through the employability and employer projects, I was able to develop my soft skills that helped me through the interview process for my degree apprenticeship."

Sellafield Ltd

Charlie joined Energy Coast UTC in Year 10 and continued into Sixth Form studying Physics, Chemistry and Construction. He has completed his **Masters in Civil Engineering** at **Newcastle University**, receiving a **First Class Honours.**

"After finishing my A-Levels and BTECs in 2018, I studied Civil Engineering at Newcastle University, with a specialism in Hydrology and sustainable water management. The work I undertake daily covers various disciplines including project management, engineering solutions, temporary works, quality assurance, setting out and surveying, planning, communicating with designers, and health and safety - all of which utilise the fundamental skills which I developed at Energy Coast UTC."

Newcastle University

Tom joined Energy Coast UTC in Year 9 on the accelerated programme and continued into Sixth Form studying Physics, Engineering and Mathematics. He secured a **degree apprenticeship** with **Morgan Sindall Infrastructure** in Electromechanical Engineering.

"During my time at Energy Coast UTC, I had various opportunities to engage with Morgan Sindall through employer projects, work experience, mock interviews and a talk from the Managing Director which inspired me to achieve a degree apprenticeship with them."

MORGAN SINDALL INFRASTRUCTURE

Lauren joined Energy Coast UTC in Year 10 and continued into Sixth Form studying Applied Science, Engineering and L3 Mathematics. She secured an apprenticeship with **Morgan Sindall Infrastructure** in Electrical Engineering.

"The skills and qualifications I received during my time at Energy Coast UTC has enabled me to easily step into the world of work. I now support the UTC with events to encourage future students into apprenticeships and the benefit of attending the UTC."

MORGAN SINDALL INFRASTRUCTURE

Sophie joined Energy Coast UTC in Year 10 and left after completing her GCSEs, securing an **apprenticeship** with **Core Nuclear** as a **Maintenance Technician.**

"I would encourage anyone to do an apprenticeship because it really matures you and allows you to get a taste of the actual work environment and meeting new employers. My time at Energy Coast UTC helped me decide on a career in engineering and set me up for success when it came to my interview."

CORE NUCLEAR SOLUTIONS

Aaron joined Energy Coast UTC in Sixth Form studying Computer Science, Cyber Security and Business. He is studying his **degree** in **Computer Science** at **Lancaster University.**

"Attending the Energy Coast UTC allowed me to have a taster of IT modules in the career I was interested in, helping me to decide on a Degree in Computer Science at Lancaster University. The employer projects and mock interviews I had during my time at Energy Coast UTC helped prepare me for my University application process."

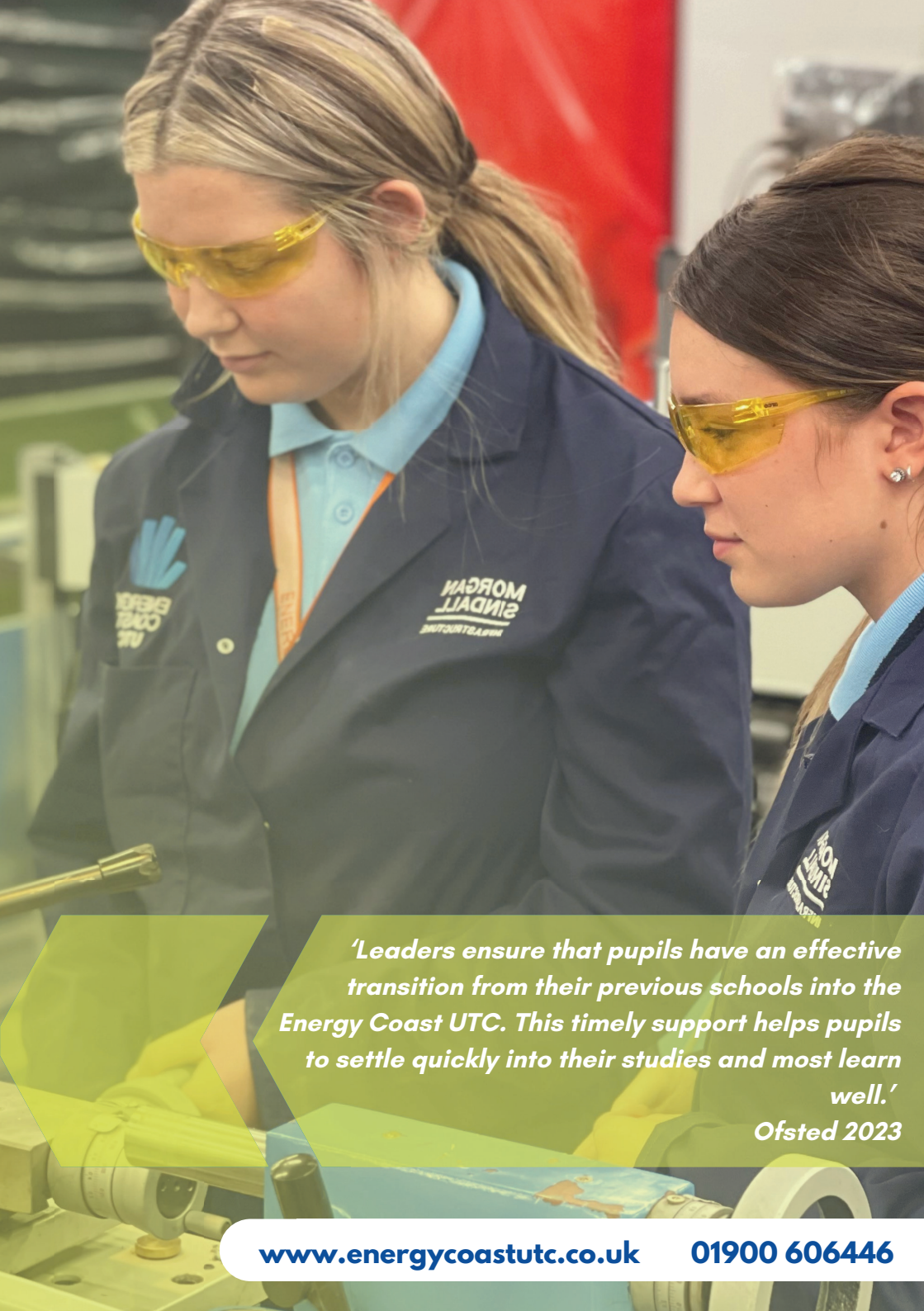
Lancaster University

CELEBRATIONS

We love to celebrate our students and staff for their studies and extra-curricular activates and actively champion our students in school and on social media for their achievements.

The Energy Coast UTC has won awards ranging from Pearson National Teaching Award for Best Teacher for Kerryann Wilson to the Golden Apple Award for Best Industry Engagement for Energy Coast UTC and MissionCX.

In the Autumn of 2024 we are up for three awards at the Golden Apples, Best Industry Engagement between Energy Coast UTC and Morgan Sindall Infrastructure, Best Education Newcomer for Lucy Hayward and Best Teaching Professional for Fran Dumont. We are also up for the Best Partnership Award at the Britain's Energy Coast Business Cluster with Morgan Sindall Infrastructure.



'Leaders ensure that pupils have an effective transition from their previous schools into the Energy Coast UTC. This timely support helps pupils to settle quickly into their studies and most learn well.'
Ofsted 2023

www.energycoastutc.co.uk **01900 606446**