

## Job advert UTC South Durham

### Engineering Technician Programme – Instructor / Assessor

#### Preparing students for outstanding STEM careers

**NOR:** up to 600 | **Age range:** 14-19 | **Start:** November 2020 or sooner.

**Salary:** £24507 to £33980, 37 hours, Unqualified Teacher Scale

#### Can you help support our students to success?

University Technical College South Durham opened in September 2016 and is the first UTC in the North East. With a focus on advanced manufacturing and engineering it is located at the heart of Aycliffe Business Park, County Durham. We provide an excellent technical education for 14-19 year olds, encompassing real, relevant workplace experience in partnership with world-class companies and have recently been graded 'Good' by Ofsted.

We are looking for an instructor/assessor to join our engineering team to deliver and assess units for our Engineering Technician Programme (ETP). As part of the engineering team, you will be responsible for the delivery and assessment of Mandatory units (H&S, Working in an Engineering Environment, Communicating Technical Information and Business Improvement) and specialist units within Sheet Metal/Welding and Mechanical Engineering.

Having previously delivered the **EAL PEO** (Performing Engineering Operations) course, we are in the first year of delivering the **EAL Level 2 Diploma in Advanced Manufacturing Engineering** (Foundation Competence 601/7179/0) and the **EAL Level 2 Diploma in Machining** (Foundation Knowledge 601/9034/6). We call this pathway our ETP route.

Recruitment for this course has been higher than expected this academic year. The successful candidate will work as part of the Engineering team to deliver and assess units across the Foundation Competency and Foundation Knowledge sections of the course.

This is an exciting opportunity for the right candidate as UTC South Durham see the Engineering Technician Programme as a growth area for the organisation, with numbers looking to continue to grow year on year. In the future, we hope to expand our offer from mainly Sheet Metal/Welding and Mechanical Engineering specialisms into Electrical Installation and Maintenance as well. We will soon out grow our building and will look to expand on our facilities in the near future.

The ETP instructor / assessor will join a very experienced team of professionals who focus on the delivery and assessment of all units for both L2 Engineering Diplomas. The course has been designed for students who haven't secured an apprenticeship and they study the whole L2 qualification, allowing them to move straight onto a L3 apprenticeship at the end of the course. The UTC industry partners fully endorse this course and see it as a great way to have their future apprentices trained and ready for employment.

*We are an equal opportunities employer and we are committed to safeguarding and promoting the welfare of children.*

**Closing date:** 12.00noon Friday 16th October 2020 | **Interviews:** Friday 30th October 2020

To arrange an informal discussion, please email:  
Jamie Smith, Vice Principal (Technical Specialism)  
jamie.smith@utcsouthdurham.org

Further information and application form downloadable from:  
<https://www.utcsouthdurham.org/home/staff-information/current-staff-vacancies>

***No agencies please.***

# Job Description

## Engineering Technician Programme – Instructor / Assessor

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**Employer:** The Durham UTC Ltd

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**Responsible to:** Vice-Principal, Engineering Technical Specialism

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Our team currently consists of three instructors. One full time (level 3) instructor who specialises in sheet metal, fabrication and welding. The other full time (level 4) instructor specialises in manual and CNC turning and milling, and delivers hand fitting. Both full time instructors currently assess the mandatory units as well as units in their specialist areas. The part time instructor (and course leader) delivers CAD and business improvement units in FC and Maths and Science units in FK.

The course has been designed for students who haven't secured an apprenticeship and they study the whole L2 qualification, allowing them to move straight onto a L3 apprenticeship at the end of the course. The UTC industry partners fully endorse this course and see it as a great way to have their future apprentices trained and ready for employment.

As part of a teaching team, you will provide the services below:

### **1. Delivery and Assessment of curriculum**

- Consistently deliver high quality, well-structured lessons which inspire, motivate and challenge students.
- Promote industry standard outcomes and ensure students become competent in the unit of study.
- Demonstrate industry standard knowledge of materials and processes, promote good H&S practices and control the engineering environment effectively.
- Adapt teaching to respond to the strengths and needs of all students.
- Make accurate and productive use of assessment.
- Develop teaching and learning strategies in line with the UTC T&L priorities and core pedagogy.
- Engage in the College wide CPD programme to develop T&L and professional practices.
- Deliver and assess content across some of the following FC units –
  - Safe working practices.
  - Carrying out engineering activities.
  - Communicating technical information.
  - Conducting business improvement activities.
  - Producing components using bench fitting techniques.
  - Preparing and using lathes for turning operations.
  - Producing sheet metal components and assemblies (<3mm).
  - Preparing and using manual TIG or MIG welding equipment.
  - Producing engineering drawings.
  - Preparing and using CNC machines (choice of CNC turning or CNC fabrication for this unit).
- Deliver content across some of the following FK units –
  - Working in an engineering environment.
  - Engineering mathematical and scientific principles.
  - Engineering techniques.
  - Business improvement techniques.
  - Fitting and assembly techniques.
  - Computer aided Drawing – CAD.
  - Principals of CNC machining/fabrication.

We are looking to offer students more choice of units in the future including CNC Milling and Plate Assembly. In order to expand our offer, we need a staff body with a range of skills to give us capacity across these specialisms. Further expansion in future years may also include offering Electrical Installation and Mechanical Fitting.

### **2. Support all areas of Engineering across the College**

- Support colleagues and students across the College with technical expertise.
- Work with teaching staff to ensure the smooth running of the Engineering Hall and all aspects of technical learning.
- Support staff and students with any additional projects or competitions that may be entered.
- Promote good housekeeping and organisation of technical areas across the College.

### **3. Additional duties**

- Act with integrity and ensure a high standard of care and safeguarding for all our students.
- Be aware of and comply with health and safety rules and legislation, ensuring the safety of students, staff and visitors at all times.
- Contribute to the overall ethos and aims of the UTC and actively contribute to support the delivery of the Student Leaver Profile.
- Act in compliance with data protection legislation in respecting the privacy of personal information.
- Comply with the principles of the Freedom of Information Act 2000 and GDPR in relation to the management of UTC records and information.
- Undertake additional duties as may be reasonably directed by the Principal where they meet the priorities of the UTC.

## Person Specification

### Engineering Technician Programme – Instructor / Assessor

The Student Leaver Profile is the cornerstone of our values, ethos and culture. It was created by our wider community of staff, students, parents, community and business leaders. We have an aspiration that all students leave us with the following things making them employable young people ready for the world of work.

We expect that all staff work toward achieving the Student Leaver Profile with our students.

The SLP has three elements:

- **Subject Knowledge and Technical Competence** – this is our curriculum offer and specialist STEM learning
- **Experiences** – This is aligned to our Careers Programme and Employer Engagement
- **Core Skills** – These are in the person specification above. Our students are asked to develop their core skills in these six areas.

Subject Knowledge and Competency	Essential	Desirable	Evidence
Appropriate level three qualification	√		Certification
Degree or equivalent		√	Certification
Undertaken relevant CPD	√		Application
Knowledge of materials and processes covered in the units delivered as part of the course	√		Skills test during interview

Experience	Essential	Desirable	Evidence
Experience of working in an educational environment		√	Application/reference
Experience of dealing with a wide range of stakeholders to develop and maintain effective relationships	√		Application/reference/interview
Experience of working in a customer service led industry		√	Application/reference/interview
Experience of advising, guiding, coaching young people		√	Application/reference/interview
Good knowledge of the engineering industry	√		Application/reference/interview
Experience of using materials and processes covered in the units delivered as part of the course	√		Application/reference/interview

<b>Core Skills</b>	<b>Essential</b>	<b>Desirable</b>	<b>Evidence</b>
<b>Communication</b>			
Ability to establish and develop professional and effective relationships with adults and young people	√		Application/ Interview
Outstanding communication skills both written and oral that are delivered professionally and appropriately	√		Application/ Interview
Excellent interpersonal skills and builds positive relationships with staff, students, business and all stakeholders	√		Application/ Interview
Outstanding presentation skills to allow effective delivery of course content	√		Application/ Interview
To listen carefully to others and actively respond in a professional manner	√		Application/ Interview
<b>Organise</b>			
To be punctual and be able to organise, prioritise and meet deadlines	√		Application/ Interview
To set and prioritise personal, educational and professional learning goals and plan how achieve them	√		Application/ Interview
To actively take responsibility for our own learning; use initiative; ask questions; seek help when needed	√		Application/ Interview
Work efficiently and accurately	√		Application/ Interview
Effective ICT and organisational skills	√		Application/ Interview
<b>Persevere</b>			
To be willing to move outside of comfort zone in order to develop, deepen and promote successful outcome	√		Application/ Interview
To always apply full effort and drive towards success, even if not always successful first time	√		Application/ Interview
To approach situations creatively, take pride in our work and produce to a high standard	√		Application/ Interview
Able to respond calmly to challenging situations and demonstrate stamina and resilience	√		Application/ Interview

Willingness to take on responsibilities beyond previous experience with suitable support	√		Application/ Interview
<b>Reflect</b>			
To welcome feedback and apply it positively to improve our work and ourselves	√		Application/ Interview
To evaluate personally and seek others opinions to improve	√		Application/ Interview
To take critique and learn from it to set future goals	√		Application/ Interview
<b>Collaborate</b>			
Able to work as part of a wider team with a flexible approach to the role	√		Application/ Interview
To help others to achieve by encouraging them and supporting them academically, emotionally and professionally	√		Application/ Interview
To adapt to different ways of working, to work hard and strive to achieve team goals	√		Application/ Interview
To share responsibility for outcomes and contribute to planning and goal setting	√		Application/ Interview
<b>Respect</b>			
Absolute commitment to the UTC ethos and attitude towards students as young adults	√		Application/ Interview
Committed to equality and diversity	√		Application/ Interview
Honesty, integrity and professionalism	√		Application/ Interview
To act with integrity at all times and be mindful of how actions can affect others.	√		Application/ Interview
To be compliant with the rules and routines of the college, community and workplace.	√		Application/ Interview
To take care of resources, materials and environment and use them safely and responsibly	√		Application/ Interview



<b>Special requirements</b>	<b>Essential</b>	<b>Desirable</b>	<b>Evidence</b>
No adverse criminal record	√		DBS check
Two satisfactory references from current and previous employers	√		

UTC South Durham is committed to safeguarding and promoting the welfare of children and young people. We expect all employees and volunteers to share this commitment.