

Job Description

Science Technician

Mulberry School for Girls
(Part of the Mulberry Schools Trust)



Welcome

Founded by Mulberry School for Girls on 1st May 2017, our Multi Academy Trust (MAT) is a flourishing collaboration of schools and partners with a focus on delivering high quality provision for local families in Tower Hamlets and East London.

We have a clear vision that all students who attend one of our schools leave us as highly qualified, confident and articulate young people with a wealth of experience. Our aim is to develop creativity, leadership and a life-long love of learning. This will enable our students to lead enriched, happy and fulfilled lives, making a contribution to their own community, to British society and to global well-being.

I enjoy seeing all of our dedicated and innovative staff teams work with each successive cohort of students to shape the culture and ethos of their schools so that each individual feels empowered and has the opportunity to contribute.

Dr Vanessa Ogden
Chief Executive Officer, Mulberry Schools Trust

Mulberry School for Girls is a high achieving, oversubscribed and successful girls' comprehensive school for pupils aged 11 to 18. Our aim is to ensure that all our pupils leave the school as highly qualified, confident and articulate young women with a wealth of experience in the wider world. We expect all our pupils to achieve outstanding outcomes academically, but we also believe strongly in developing a life-long 'love of learning'.



Our school is a place where girls' talents and abilities are nurtured in a safe, creative space and where they can develop their ambitions, creativity, leadership and the power for self-determination. We believe these things will enable our pupils to lead enriched, happy and fulfilled lives, making a contribution to their own community, to British society and to global well-being.

There is an outstanding enrichment programme which includes Model United Nations Global Classrooms, women's education conferences, youth conferences and the Girl Guides, the Duke of Edinburgh's Award, sport clubs, residential visits and over 50 weekly lunch-time and afterschool clubs. Our curriculum is enriched through extensive links with a range of organisations including Bank of America Merrill Lynch, London Stock Exchange, National Theatre, the BFI and the Donmar warehouse.

We are also part of the innovative Mulberry STEM Academy, a partnership with Mercedes-Benz Grand Prix Ltd. The Mulberry STEM Academy is a Saturday/holiday provision that provides a place of learning, inspiration and innovation for young people interested in STEM (science, technology, engineering and maths).

We look forward to welcoming you soon.

Alice Ward
Headteacher, Mulberry School for Girls

Our Vision

Our vision is to be a key provider for quality education so that all of our students leave us as highly qualified, confident and articulate young people with a wealth of experience.

This vision is under-pinned by moral purpose – a desire to do more to improve the quality of education for all children and young people – and a commitment to schools working together to secure an inclusive, ambitious, collegiate and high quality offer.

A Mulberry education is premised on three under-pinning principles:

1. Access to education and the chance to be educated is a human right in a civilised world.
We believe that every young person should receive the same opportunities and quality of education, regardless of their natural ability or where they come from. Our Trust was formed to enable our partners to deliver the best possible educational outcomes for their young people and the communities they serve through sharing expertise and promoting outstanding practices.
2. Education should provide rich intellectual and personal development for individuals and communities of people.
An education offered by the Trust is concerned with the spiritual, moral, social, cultural and physical development of people so they have self-determination and can create for themselves fulfilled, happy lives. It is also concerned with equipping people for employment, making a contribution to the economy as well as enabling them to sustain themselves financially.
3. Education is a public good.
To have universal school education brings economic and social benefits to the whole of society; it creates greater peace, prosperity and economic and social well-being. The Mulberry Schools Trust is outward facing and contributes to education beyond the doors of its own schools.

These principles shape the aims of the Trust's education: the curriculum that is delivered, the personal development that is offered and the wider opportunities that are provided across the system.

Our Aims

Our aim is to develop creativity, leadership and a life-long love of learning in our students which will enable them to lead enriched, happy and fulfilled lives, making a contribution to their own community, to British society and to global well-being.

Every student will receive an education that:

1. Engenders high levels of academic and technical ambition
2. Provides rich personal development
3. Enables the development of students' high aspirations and self-determination

Bringing Down Barriers to Success

Our shared background in providing for disadvantaged communities has inspired the Trust to build up a broad network of partnerships to aid and develop student experience, opportunity, drive and success. It is our belief that there should be no barriers to each child's future and that society should, and can, be a level playing field. Aspiring for this to be reality we promise to:

- Emphasise high quality subject teaching that is reinforced by excellent support for learning and intervention.
- Deliver inclusion services that assist personal development.
- Provide excellent pastoral care so no student goes unsupported.
- Continually develop strong leadership and have high levels of expertise in education, supplemented by knowledgeable, committed and challenging governance.

Partnerships with Impact

The Mulberry Schools Trust's corporate and arts partners, such as Mercedes-Benz Grand Prix Ltd., Bank of America Merrill Lynch, the British Film Institute, the National Theatre, the London Stock Exchange Group, the Donmar Warehouse, the Southbank Centre, Barts NHS Trust and others, will all contribute extensively and be central to the wider extra-curricular experiences that the Trust is able to offer to achieve its aims.



About Mulberry School for Girls

Mulberry School for Girls is an 11-18 comprehensive community school with over 1600 students, close to Whitechapel and Shadwell in the London borough of Tower Hamlets. A successful and popular school in the local area, Mulberry's accolades include Leading Edge, Training School, Arts School, International School and Healthy Schools' status. The school is fully inclusive in all year groups, including the Sixth Form, and in July 2013 Ofsted graded the school 'Outstanding'.

Performance at GCSE is significantly above national average in terms of progress and attainment and this has been the case for a number of years. The average progress 8 score over the past 4 years is 0.75. In summer 2019, students at Mulberry achieved strong levels of success at GCSE, with 67% of students achieving five passes at GCSE at 9-4. In summer 2020, 84% of student achieved 9-4 including English and maths. The ambition to achieve amongst Mulberry students was replicated at Sixth Form with destinations including Oxford, Cambridge, Edinburgh, St Andrews and the London School of Economics as well as record number of students going on to study Medicine. Despite being located in one of the country's most deprived areas, students at Mulberry now achieve well above national standards in all areas, proving that schools can overcome the attainment gap.

A relentless focus on high quality Teaching and Learning

As Dr. Vanessa Ogden explains, the key to excellent outcomes lies in the classroom: 'students achieve well because teachers deliver lessons which excite and engage learners, and which challenge students at all levels of ability'. In addition, the school's research-led approach gives teachers the opportunity to try out new approaches in the classroom. Members of staff are able to access a range of high quality professional development, which ensures that they are consistently refining their practice in order to secure the very best outcomes for students. Many have postgraduate qualifications, and young teachers are encouraged to take on leadership opportunities. Jill Tuffee, Associate Headteacher, argues this helps the school to recruit and retain talented teachers, since 'they can see that we will give them opportunities to learn and to progress'.



Intensive support for under-achieving students

Mulberry's Prep' programme provides mentoring and support for under-achieving students in Year 11. As well as individual mentoring in school time, students attend special sessions on Saturdays and in holiday time to boost their confidence. This is further supported by the work of progress tutors, who are members of staff who are attached to particular year groups, and who are responsible for analysing and evaluating students' progress and coordinating after school prep sessions. These sessions provide students with a quiet space to complete homework or further extension activities and therefore help to maximise progress.

Rigorous tracking and monitoring of progress

As part of the school's focus on raising standards, members of the Senior Leadership Team meet regularly with subject leaders to discuss students' progress. The approach is supportive, with departments encouraged to put forward ideas for raising attainment. As the Associate Headteacher explains, 'in preparation for these meetings, subject leaders analyse current progress data, review the quality of pupils' work, visit lessons and consult with pupils to provide a full picture of how individual pupils are doing and what more we can do to ensure every child reaches her full potential'. These meetings are part of a school-evaluation cycle every half term where all teachers are engaged in reflecting on how best to respond to the individual needs of their pupils. A particular focus in recent years has been developing students' academic writing skills and the excellent achievement in GCSE English in 2018 demonstrates the impact of this work'.



Developing young women as global leaders

All students are encouraged to take on leadership responsibilities, and to see themselves as leaders in their community and the wider world. Mulberry's work with local businesses provides role models for students, and partnerships with independent schools help to break down barriers. There are many conferences for young women which the school organises for girls across the country in state schools and Mulberry is the only school in the country to have a Women's Education Office which constantly promotes gender equality and organises a multitude of opportunities for students to take public platforms and have their voices heard. This includes Model United Nations with UNA-USA, engagement with all kinds of scholarship programmes such as the US Embassy's Civil Rights Programme and the Southbank's Women of the World Festival. In June 2016 due to the school's long-standing commitment to women's education and community empowerment the First Lady of the United States, Michelle Obama visited Mulberry to launch her Let Girls Learn campaign.

Working in partnership with the local community

Mulberry works closely with local families, running ICT, ESOL and a range of other classes for parents in school every week. Benefits include renewed confidence for parents in their ability to support students with their homework and increased engagement of families in all areas of school life. In February 2013 the Mulberry & Bigland Green Centre opened which houses a Children's Centre (run

by LBTH) and adult learning classrooms, as well as a professional-standard theatre for the school and community to use.

About the team and role

The successful Science Technician will join a team of 2 Science Technicians and a Lead Science Technician. The successful candidate will be working closely with the Head of faculty and Lead Technician to ensure a seamless running of the Science laboratories, providing technical support to teaching staff and students.

Job Description

Job Title: Science Technician

Reports to: Lead Science Technician

Salary scale: NJC Support Staff Pay Scale 5 (full time figure; £29,364 to £30,852 pa) Actual term time only salary will be £25,371 to £27,248.

Duration: 35 hours per week, term – time only, 39 weeks per year. Fixed-term until 31st August 2023

Job Purpose

To provide a science technician service for Mulberry School for Girls at Key Stage 3, 4 and 5. Implementation and dissemination of all appropriate Health and Safety legislation and guidance with respect to science education, including C.O.S.H.H. to ensure that statutory safety regulations and safe practice is complied with, relating to teacher / technician skills and qualifications and student involvement in the classrooms and workshops.

Key Accountabilities, Duties and Responsibilities

- To deliver the provision of technical support and assistance for the science team, in conjunction with the Senior Science Technician.
- Ensure the constructions, service and repair of equipment as required.
- Ensure safe and appropriate storage and disposal of chemicals as required.
- Implement systems for meeting the needs of science practical work, including health and safety practices in the technician departments and appropriate risk assessments, in conjunction with the Senior Science Technician.
- Maintain acceptable levels of tidiness in the science prep rooms and classrooms following practical's'.
- Take responsibility for ensuring the appropriate storage, use and disposal of radioactive sources.
- Take responsibility for carrying out regular health and safety checks on science laboratories and relevant equipment.
- Supporting the development of positive relationships with sponsors, partners and the local community, including parents and local businesses

Management of people

- The post has no responsibility for managing staff.

Creativity and Innovation

- The post holder works within defined policies and procedures and Health and Safety legislation. The post holder has a degree of autonomy to propose, develop and / or implement new procedures, which will be done in conjunction with the Senior Science Technician. The post holder also prompts and supports innovative use of science equipment and facilities.

Contacts and Relationships

- Direct daily contact with MSfG staff and students aged 11-19, advising on the use / availability of equipment and providing health and safety guidance.
- Liaise with external suppliers to ensure timely and appropriate resourcing of the science team at MSfG, in conjunction with the Senior Science Technician

Decisions

a. Discretion

The post holder makes decisions from a broad range of alternatives within constraints of policies and procedures.

b. Consequences

Decisions have a significant impact on teachers and students and their health and safety, as well as their access to science facilities and equipment at MSfG.

Resources

- Responsible for the care and safe keeping of equipment and chemicals

Work Environment

Work demands

- The post holders routine may be varied and subject to interruption, however this should not impact on overall completion of tasks

Physical Demands

- The post holder will regularly move and handle science equipment

Working Conditions

- Work is normally carried out in a science classroom or preparation area, which should be well lit and ventilated. Exposure to potentially toxic, corrosive and harmful chemicals / substances.

Work Context

- Required to work with chemicals and cleaning materials

Equality, Diversity and Inclusion

- Adhere to the Trust's policies and ensure anti-discriminatory practice in all aspects of the role.
- Leadership responsibility for ensuring compliance with equality legislation.

Safeguarding

- The post-holder will have due regard for safeguarding and promoting the welfare of children and young people and will follow the child protection and safeguarding procedures adopted by Mulberry Schools Trust. Any safeguarding and child protection issues will be acted upon immediately by informing a Designated Child Protection Lead.
- The School as an employer is committed to safeguarding and promoting the welfare of children and young people as its number one priority. This commitment to robust Recruitment, Selection and Induction procedures extends to organisations and services linked to the Trust on its behalf.

Health and Safety

The Health and Safety at Work Act (1974) places duties on all employees:

- To take reasonable care for their own Health and Safety and that of other persons who may be affected by the individual's acts or omissions at work;
- To co-operate with management to enable them to carry out their duties and comply with all relevant Health and Safety legislation;
- Not intentionally nor recklessly to interfere with or misuse anything provided in the interests of health, safety or welfare;
- To assist management/leaders in preparing, implementing and updating all relevant risk assessments for their area of responsibility.

Data Protection

All staff within the Trust have a responsibility to ensure that data they are responsible for is accurate and appropriate to the needs of the organisation, and that they are responsible for ensuring any personal data processed for any purpose or purposes in connection with their role in the Trust shall not be kept for longer than is necessary for that purpose or those purposes, in accordance with the Data Protection Act 2018.

This job description is correct at January 2023 and may be subject to amendment following discussion with the post holder. The included serve only as a summary of the main responsibilities of the post.

This job description is correct at the date of publication and may alter over time as the needs of the Trust change. The job description will be discussed as part of the Trust's appraisal policy and may be amended after discussion with the post holder. It has been compiled to allow the job to be assessed against the Trust Pay Policy and evaluated alongside the GLEA Job Evaluation scheme, adopted by the Trust.

Person Specification

Education / Qualifications

- A relevant qualification at a minimum level 2, and / or industry recognised technical qualification(s); or equivalent experience in a relevant field
- Experience of providing technical support to a science team in a “real time environment” such as education

Knowledge and Expertise

- Significant working knowledge of a range of science equipment and facilities suited to school use
- Working knowledge of relevant legislation, including Health and Safety
- Ability to write and maintain clear and concise documentation for internal systems and procedures
- Chemistry background (desirable)
- Good use of Microsoft packages (or good IT skills)

Personal qualities

- Ability to relate well to young people and adults and to work constructively in a technical support role within a diverse team
- Ability to solve problems and to learn and apply new solutions
- Ability to communicate effectively with staff, students and visiting professionals and to relate professionally to people at all levels
- Demonstrable commitment to equal opportunities
- Demonstrable commitment to all MSfG policies, including a commitment to support teaching staff and the senior leadership team in managing the operational processes of the school.

How can I apply?

You will need to complete the application form on the online TES application form which includes your letter of application explaining why you are the perfect person for this rare and exciting opportunity. Please be aware that we can't accept any CVs for this post.

Please complete your application directly online via TES. If you have any questions about the role or the process, please get in touch with us at hr@mulberryschoolforgirls.org.

Closing Date: Midday, Friday 3rd February 2023

Interview Date: w/c 6th February 2023

Start Date: Immediately

The school is committed to safeguarding and promoting the welfare of children and expects all staff and volunteers to share this commitment. The successful candidate will require an enhanced DBS clearance. We are dedicated to equality and valuing diversity.

