



Mayfield Grammar School

Gravesend

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Science Technician

**37 hours per week – Term time and Development Days,
including Open Evenings
Required from May 2019
Salary at Kent Range 5, £18,704.00 pro rata (full time)**

A technician is required to help with the use of, and development of practical resources and facilities, including the provision of guidance and support in meeting the practical requirements of the Science curriculum. The successful candidate will be part of the technician team and aid the promotion and observance of a healthy and safe working environment for the technical support service. It would be an advantage for candidates to have experience of supporting Sciences up to A Level but not essential.

The school has a high profile for achievement locally and nationally and prides itself on its strong record of internal professional development. The school was judged by Ofsted to be "Outstanding" in all categories of inspection in June 2013.

Further details and an application form are available from the Staff Vacancies section of the school website www.mgsg.kent.sch.uk

Applications made via Kent Teach will be accepted.
CVs will not be considered and should not be submitted.

All applications with a covering letter addressed to Mrs E Wilson, Headteacher must be received by **1.00pm on 23rd April 2019**

This school is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment.



Mayfield Grammar School, Gravesend

Mayfield Grammar School, Gravesend is a selective girls' school with boys in the sixth form which is situated in the town of Gravesend, with easy access to the A2 and M25 and a direct rail link to Charing Cross. In February 2012 we converted to Academy Status and the school celebrated its Centenary throughout 2014/15.

The school occupies two sites. One houses the original 1926 building with its distinctive quadrangle and bell tower, surrounded by its playing fields. The other has specially designed facilities for Technology, Sports and Drama opened in 1995. There is ICT provision on both sites and a Learning Resources Centre on the main site.

The school is an 11-18 grammar school. Entry at age 11 is via the Kent 11 plus selection procedure comprising nationally standardised Verbal, Non-Verbal and Mathematics tests. The procedure allows admission of the top 25% of the ability range. An optional additional opportunity to assess eligibility for admission is available through the Mayfield testing procedure.

The school was judged to be Outstanding by Ofsted in June 2013. Ofsted reported that "achievement in all subjects including English and Mathematics is exceptionally high" and that "The behaviour of students is exemplary. They engage enthusiastically with their learning, are courteous, polite and keen to contribute fully to the life of the school". We are an outward looking school determined to provide the highest quality education by capitalising on opportunities available to the school. We work as a team where the contributions of all the staff are equally valued. We place major importance on providing new staff with an effective induction into the school and all staff are constantly seeking to improve their professional practice through external and internal training. Governors, parents and the community are extremely supportive of the work of the school.

The Senior Team consists of the Headteacher, a Deputy Headteacher and three Assistant Headteachers. There are five Faculties: English (including Drama and Media Studies), Mathematics (including Computing and Economics), Science, Modern Languages and Humanities. Art, Technology, Music and Drama are also taught throughout the school. Pastoral care is via Learning Leaders, working with Form Tutors and supported by Key Stage Co-ordinators. A House System was introduced in September 2013. Merit points are given to students during the year and the Aster Trophy is awarded to the House with the most points overall.

The teaching staff are supported by Administrative Staff in the main office, a Reprographics Assistant, Librarians, Finance staff, an Assessment Officer, a Cover and Examinations Officer, a Pastoral Support Manager and a team of Technicians. A Premises Manager, supported by two assistants, looks after the two sites.

The curriculum follows National Curriculum guidelines. All students have the opportunity to gain ten or eleven GCSEs at the end of Year 11.

There are circa 1130 students on roll, 266 of whom are in the Sixth Form. From 2018, we expanded the Pupil Admission Number (PAN), to 180. For the last three years, the school has admitted above PAN. We are currently undergoing an extensive rebuilding programme on both sites, to accommodate the rising roll.

Extra-curricular activities include a full sporting programme, choirs, orchestras and other club activities. A large number of students participate in the Duke of Edinburgh Award scheme. There are Conferences, the Graduation Ball and discos for students run in conjunction with Gravesend Grammar School. The school enjoys strong links with the local business community and runs a full Careers support programme. The school runs an extensive programme of trips and visits both home and abroad for all year groups. Mayfield Grammar School, Gravesend is a happy community where relationships are exceptionally good.

This is a non-smoking school.

Anyone interested in the school is welcome to visit our website at www.mgsg.kent.sch.uk

January 2019

Mayfield Grammar School, Gravesend

Science Faculty

A vacancy has arisen for a full time Science teacher. The person appointed will join a lively, experienced, enthusiastic and academically successful Faculty which *at present* comprises seven full-time and three part-time members of the teaching staff.

Miss Erica Yeong	Chemistry	Head of Faculty
Mr Marius Weilbach	Physics	Subject Leader
Mrs Shirley Gurteen	Biology	Subject Leader
Mrs Janice Murfet	Chemistry	Learning Leader
Mr Ian Gordon	Chemistry	Learning Leader
Dr Andrew Morris	Chemistry	
Ms Yaiza Sese	Biology	
Mrs Claire Buchanan	Biology (part-time)	
Mrs Linda Dalton	Biology (part-time)	
Ms Lucy Trill	Physics (part-time)	
Mr Sekou Kambona	Physics	

Science is taught in a suite of six laboratories and one class room in the main Science block and two additional laboratories in a separate adjacent building. Each room has a projector linked to a computer and the refurbished Chemistry laboratories have interactive smart boards.

The Faculty is supported by 3 technicians and Mr James Burns the Senior Technician.

Lower School Science

Year 7 and 8 currently follow an in house 2 year course with 6 lessons in Year 7 and 6 lessons in Year 8.

Members of the Faculty also contribute to the Science element of Year 7 Learning 2 Learn and Year 11 personal development courses.

Upper School Science GCSE

At present, Year 9 students start their GCSE courses, taught by subject specialists (3 lessons of Biology, 2 lessons of Chemistry and 2 lessons of Physics).

The current Year 10 and 11 students are following the Edexcel GCSE Sciences either as three separate sciences or the Combined Award.

Year 10: 3 lessons of Biology, 4 lessons of Physics and 3 lessons of Chemistry.

Year 11: 3 lessons of Biology, 3 lessons of Physics and 4 lessons of Chemistry

A Level Biology

Biology is an extremely popular subject with over a hundred sixth form students enjoying the AS and A2 courses. We follow OCR (A), which takes real life situations, developing students' biological knowledge and understanding to fully appreciate the event or issue.

The course provides the opportunity to carry out research and practical work, improving essential skills for study of Biology beyond A level. Many of our students go on to further study at University, either a pure Biology degree or through more vocational courses such as Medicine, Dentistry, Physiotherapy, Forensics and Veterinary Science.

A Level Chemistry

The course we follow is OCR specification A. This specification is divided into 6 modules. Module 1 consists of short practical tasks. Modules 2-4 are taught in the first year and include topics such as atoms, ions, compounds, moles, acids, bonding, the Periodic Table, reactivity, enthalpy, equilibria, organic chemistry and spectroscopy. Modules 5-6 are taught in the second year and include topics such as redox, rates of reactions, transition elements, carbonyls and chromatography.

A Level Physics

Both the AS and the A2 courses are based around a variety of 'contexts' which are used to bring out different elements of the Physics involved. This is an alternative to the traditional approach whereby each branch of Physics is taught as a separate entity. The advantage of this approach is that it puts the applications of Physics into a meaningful and motivating context for the students, while revisiting topics throughout the course which enables students to acquire the knowledge and skills in a spiral manner.

The AS course looks at mechanics, materials and lenses and waves, electricity and wave/particle duality. The A2 course revisits these topics and extends student understanding by introducing momentum and circular motion, electric and magnetic fields and particle physics and thermal physics, nuclear physics, oscillations, astrophysics and cosmology.

Job Description

Post Title: Science Technician
Responsible to: Subject Leader/Senior Science Technician
Hours: 37 per week, Term time only (39 Weeks per year).
Duties: Technical support to the Science Faculty.

Responsibilities

- Making up solutions.
- Assembling apparatus, including ICT and datalogging equipment.
- Delivering equipment to rooms.
- Collecting, checking and returning equipment to stores, including securing and charging laptops.
- Taking care of laboratory equipment and apparatus.
- Carrying out and arranging for maintenance and repair of resources in conjunction with other support areas such as ICT and premises.
- Constructing and modifying apparatus.
- General laboratory cleaning (bench surfaces and fixed equipment).
- Cleaning laboratory sinks.
- Organising and storing chemicals and equipment.
- Stocktaking chemicals and/or equipment.
- Obtaining materials by local purchase.
- Disposing of waste materials.
- Caring for plants and/or animals.
- Trialling practical activities.
- Carrying out risk assessments for technician activities.
- Providing technical support to teachers including health & safety guidance.
- Providing technical support to students/pupils including health & safety guidance.
- Assisting in practical classes.
- Carrying out demonstrations.
- Keeping up to date with developments in practical science.
- Carrying out health & safety checks on laboratories, prep rooms and stores.
- Carrying out safety checks, which may include electrical equipment, fume cupboards, first-aid kits, pressure vessels and the condition of Bunsen burner tubing, eye protection, glassware, and chemicals that deteriorate.
- Have a working knowledge of other subject areas within the science faculty in order to provide support to colleagues or cover in the event of absence.
- Be available to assist and support science faculty areas on open evenings.
- Any other reasonable duties as requested by the Headteacher, Head of Faculty, Subject Leader or Senior Technician.

Signature of Postholder: _____ **Date:** _____