

# ST PAUL'S SCHOOL

Est. 1509



## Teacher of Electronics, Starting Autumn, 2017

### General

St Paul's is a selective independent boys' school with about 940 pupils in the age range 13 to 18, of whom up to 35 are boarders. The School (which includes a Junior School for boys of age 7 to 13) occupies a superb 45-acre site on the south bank of the Thames, west of Hammersmith Bridge. St Paul's excels academically at both A level/Pre-U and GCSE, with some of the highest national scores, but it is the work beyond the curriculum that excites both students and teachers alike. Teaching takes place within an eight period day, five days a week.

### Engineering in St Paul's and St Paul's Juniors

The senior and junior parts of the school share teaching and facilities. The department has its own suite of rooms consisting of two fully equipped workshops, two dedicated CAD rooms and a separate CAM room for 3D printing and scanning. Boys are able to carry out design and manufacturing using industry standard tools. They also have ready access to a 3D scanner and laser cutter in addition to the full range of wood and metal working machinery and tools.

At St Paul's Juniors, Engineering is part of the curriculum from Year 5. Projects develop designing, manufacturing and problem solving skills and promote independence whilst making ethical design decisions.

At St Paul's, all boys follow a general course in Year 9 to introduce them to the three "Engineering" options offered by the school at GCSE: Electronics, Product Design and Systems & Control. For Years 10 & 11, all boys are required to select an option for GCSE from Art, Music, Drama and one of the 3 Engineering options. In addition to preparing students for success in examinations and coursework submission, each of our courses has a strong emphasis on Engineering including the application of Maths and Physics. We have established our own Engineering course post-GCSE which aims to provide students with an enhanced understanding of Engineering and Engineering Design. As part of this, they complete a level 3 Engineering Extended Project. Typically, between 15 and 20 boys choose the subject post-GCSE.

St Paul's Juniors has its own Head of Engineering; at St Paul's, the subject areas of Electronics, Product Design and Systems & Control each have a curriculum leader reporting to the Director of Engineering.

Teaching in the department takes place in small groups (typically twelve boys up to Year 9 and no more than nine boys in Years 11, 12 and post-GCSE). Currently, eight members of staff have teaching responsibility within the department. Some of these also contribute to teaching in related subjects, depending on their interests. We are ably supported by three full-time technicians.

We have a thriving Engineering Society as well as a number of Junior Engineering clubs. Our success in national and international Engineering competitions is second to none. Examples of the boys' achievements include:

- St Paul's is the only school to have won the prestigious "Schools' Aerospace Challenge" competition 3 times.
- Teams from St Paul's have been selected to represent the UK in the European Space Agency's Cansat Competition on 3 occasions – including in 2015.
- Teams from St Paul's recently came 1st in the Weizmann Institute's International "safecracking completion".
- Seven boys currently in Years 12 and 13 hold Arkwright Scholarships.

A key aim of the department is to ensure that Engineering is firmly established in the language and curriculum of St Paul's. All of our students should gain an appreciation of the relevance and importance of our subjects in the modern world. Students

choosing to take one of our subjects after Year 9 should gain an enhanced understanding of Engineering, which will help them make informed decisions about university degree choices, and enhance applications to leading universities.

### **The Post Available**

The vacancy is for Autumn Term 2017. The post would suit an experienced teacher looking for new challenges or an NQT, and involves teaching Electronics to KS4 in St Paul's and Electronics and some Product Design from Year 7 in St Paul's Juniors. There would also be an opportunity for the right candidate to teach Engineering post-GCSE.

Members of staff, once established, are normally expected to become tutors, having responsibility for the pastoral care of up to 15 boys across the age range, and to contribute to the many extracurricular activities, such as sport, drama and societies, which St Paul's offers.

Selection will be made on an equal opportunities basis.

We offer a salary significantly above the National Scale, help with accommodation if required, and a highly discounted education for staff children, subject to competitive entry.

### **Further Details**

Further details and an application form can be obtained from the School's website [www.stpaulsschool.org.uk](http://www.stpaulsschool.org.uk) via the 'Vacancies' tab in the footer. Applications should be sent via email, to [hmsec@stpaulsschool.org.uk](mailto:hmsec@stpaulsschool.org.uk) and the closing deadline for all applications is 5pm on 22<sup>nd</sup> February 2017. Interviews will take place on Wednesday 1<sup>st</sup> March 2017. Please feel free to contact the Director of Engineering, Katie Douglass, [knrd@stpaulsschool.org.uk](mailto:knrd@stpaulsschool.org.uk), if you would like to discuss any aspect of the post, or the School in general.

***February 2017***