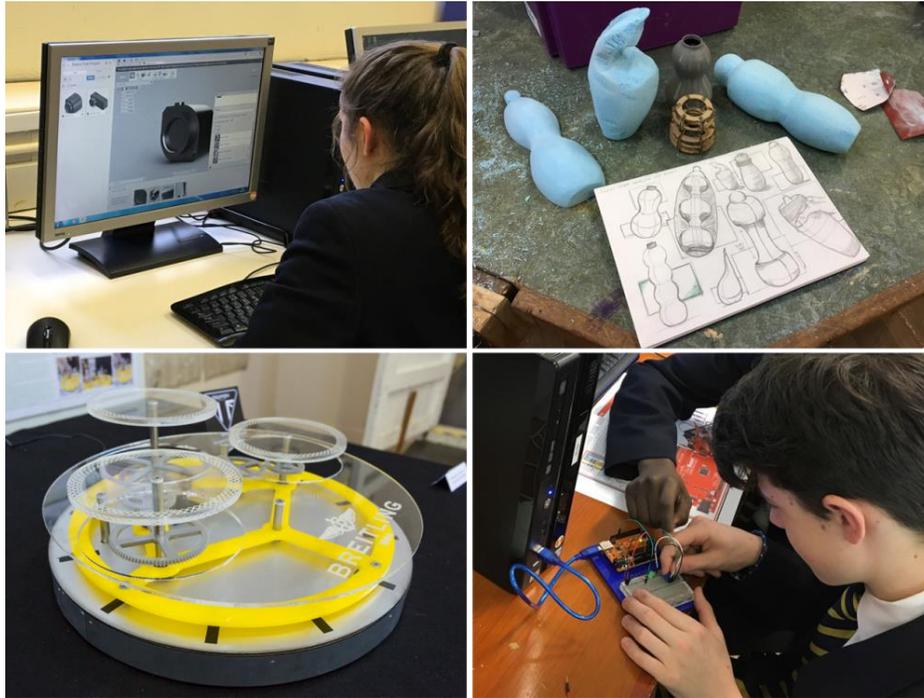


## CRANLEIGH SCHOOL



### TEACHER/S of DESIGN ENGINEERING

Cranleigh School seeks to appoint for September 2018 an outstanding practitioner to teach within the Design Engineering Department. This post provides an excellent opportunity for both experienced and newly qualified teachers to join an effective, enthusiastic and forward thinking department. The successful candidate will be required to teach from Key Stage 3 to 5. The department currently offers OCR Design Technology at GCSE progressing towards A Level Product Design and from September 2018, Design Engineering.

We also seek to appoint a teacher to the department to cover a period of adoption leave on a Fixed Term contract.

Cranleigh School is a leading fully co-educational independent boarding and day Senior School consisting of around 630 girls and boys of 13 – 18 years of age. There is also a Preparatory School in close proximity to the Senior School which has around 330 girls and boys.

## THE DEPARTMENT

Design Engineering is offered from Year 9 (IV) to Year 13 (UVI) and is an increasingly popular option at both GCSE and A-level. In recent years our pupils have been shortlisted for National Design Awards and continued to study Design or Engineering related degrees at Loughborough, Brunel, Bournemouth and Nottingham Trent.

The Department currently consists of three full-time and one part-time member of staff supported by a technician. It has three classrooms each equipped with a full suite of computers and a 3D Printer, a large main workshop with three adjoining dedicated workshops fully equipped for CAM, soldering and heat treatment.

The Department works very much as a team and we would very much want the successful applicant to feel comfortable with this way of working, whilst always looking for opportunities to extend, modify and develop our working practices to maximise the potential of the pupils.

### The Curriculum

During the Fourth Form pupils study a range of topics through both theoretical and practical challenges including: robotics, mechanisms, electronics, structures, CAD and 3D Printing. The Fourth Form course is designed to give pupils an insight into the GCSE course and provide the foundations for further study within the subject.

The Department follows the OCR syllabus at both GCSE and A Level. At GCSE we encourage the students to develop their thinking skills leading towards invention and design innovation, to design and make prototypes that solve real and relevant problems, preparing them to become critical and creative designers, engineers and consumers of the future. An understanding of materials, processes, systems and components is delivered through theoretical teaching alongside practical challenges and tasks. During their first year of the GCSE course pupils will opt for their specialist route; either Product Design or Design Engineering and continue the course according to their interests.

Both the Product Design and Design Engineering A Level are designed to build on the foundations of GCSE course. Product Design is focused towards consumer products and applications; their analysis in respect of materials, components, and marketability to understand their selection and uses in industrial and commercial practices of product development. Whereas Design Engineering is focused towards engineered and electronic products and systems; the analysis of these in respect of function, operation, components and materials, in order to understand their application and uses in engineered products/systems that have commercial viability.

The Department has a strong and ever improving track record in examination results. Last year we achieved 70% A\*-A (100% A\*-B) at GCSE and 75% A\*-B at A Level.

The Design Engineering department also offers a range of co-curricular activities such as Airgeeners: a national competition challenging pupils to design, build and race their own mini-drone. VEX Robotics: a global competition challenging pupils to design and build robots to complete a range of different challenges. We also encourage pupils to enter a variety of Design and Engineering related competitions to showcase their talent and coursework projects.

The introduction of iPads for pupils from January 2018 provides many new opportunities and the successful candidate must be prepared to fully engage with this new initiative. All teachers are supplied with their own iPad. Our intention is for technology to be used to supplement and enhance learning.

## THE POST

This post provides the opportunity either for someone with experience or for someone relatively new to the profession, to join this gifted and successful team. The successful candidate should be prepared to teach both Design Engineering and Product Design - although experience of teaching both is not essential. The post requires the successful candidate to play an active role in driving the department forward including:

- teaching to the highest standard across all year groups;
- working collaboratively with other department members to develop and deliver a current and engaging curriculum;
- preparing suitable teaching material for each lesson and following the departmental programmes of study;
- contributing to the making and sharing of Department resources;
- taking responsibility for specific teaching areas;
- setting an appropriate level and quantity of prep in line with Departmental and Whole School Marking policies;
- providing written reports, report grades and summative assessment marks by the published deadlines;
- attending weekly Department meetings;
- supporting aspects of the departments' co-curricular programme.
- upholding and adhering to relevant H&S requirements within the department.
- working with energy, enthusiasm and vision.

The accompanying information, 'Why teach at Cranleigh?' gives an impression of the ethos to which it is expected that the successful candidate will contribute.

## THE PERSON

We are looking for an energetic character who can effectively communicate his or her enthusiasm for the subject, and enable their pupils to reach the highest of standards. The successful candidate will set an outstanding example through his or her teaching. Experience of examining is not crucial, but would be an advantage.

The successful candidate will have an excellent knowledge of, and a real enthusiasm for the subject, and is likely to hold a good honours degree in Design or Engineering related subject. He/she will be self-motivated and will relish the challenge presented by being part of a forward-thinking and successful department. A commitment to pupils, the Department and the wider life of the School, plus a firm grasp of curricular developments are important as are empathy, organisation, a sense of humour and the ability to enhance the Department's delivery and development of the subject.

The ideal candidate will be flexible, adaptable, innovative and a good team player.

In addition he/she would be expected to get involved in all aspects of this busy boarding school including acting as a tutor to a group of students within a House including some of the delivery of the school's PSHEE programme. This would normally include one evening duty per week. All teachers are expected to contribute to the School's co-curricular programme and co-curricular activities alongside their academic responsibilities.

## THE APPOINTMENTS

The permanent appointment is from September 2018.

The start date for the Fixed Term appointment is dependent on the details of the adoption leave but is likely to be prior to September 2018.

Candidates should state fully what their particular interests are and where they think they can make contributions to the wider life of the school.

Cranleigh School has its own salary scales and the successful applicant will be offered a salary commensurate with their qualifications and experience. Accommodation for the permanent position is available if required and salaries are adjusted accordingly.

If you think you'd fit the bill we'd be delighted to hear from you.

To apply, please submit a brief letter of application together with a completed Application Form, available on the School's website, supported by a full Curriculum Vitae and to include the names and contact details of two referees. Closing date for applications is **9.30 am on Wednesday 24<sup>th</sup> January**. Applications will be considered as they are received.

Applications should be sent to:

The Headmaster, Cranleigh School, Horseshoe Lane, Cranleigh, Surrey, GU6 8QQ or via email to [mrp@cranleigh.org](mailto:mrp@cranleigh.org)

*We are committed to the safeguarding of children and enhanced disclosure screening will apply to this post.*