

# HIGHGATE

## **Teacher of Design Technology & Engineering September 2019**



A teacher of Design Technology & Engineering is required for this academically selective, coeducational North London day school. The role might suit a qualified teacher from the independent or state sectors or a technology or engineering graduate wishing to become a teacher. Expertise in Design Engineering syllabuses will be a particular recommendation.

The successful applicant will join a team of five specialist teachers, who work in a modern, well-resourced department with the assistance of three technicians. The person appointed will be required to teach pupils from Year 7 through to Year 13. Interest amongst the pupils is high and there is considerable scope for someone with imagination and drive to have a significant curricular impact, to assume additional departmental responsibility, or to help further develop one of the school's most successful extra-curricular programmes.

Applicants should be academically well qualified in their field and be able to inspire academically-minded, intelligent pupils with an enthusiasm for technological processes, invention and innovation. Additionally, experience in, or a feeling for engineering, electronics or computer science would be a recommendation, as would be an enthusiasm for hands-on design and technological projects.

The formal programme of study of Design Technology Engineering is compulsory for pupils in the core curriculum up to KS3. We run the OCR Design Technology GCSE and the OCR Design Engineering A Level. The subject is popular both at GCSE and A level, particularly with pupils who have an interest in pursuing related degrees.

DTE is taught in a custom-built Art, Design and Technology Centre at Highgate. There are three teaching classrooms, three well-equipped workshops, two ICT suites, an electro-pneumatic lab and an automotive workshop. Additionally there is a departmental office and two separate prep rooms, which are extremely well-resourced, including 3D printers, a laser cutter, etc.



The department coordinates regular entry to a variety of national competitions and boasts significant success, including in Vex Robotics, Greenpower, the IET Faraday Secondary Challenge, the Technology Design Innovation Challenge and the Triumph Design Awards. The Department organises pertinent educational visits within the London area, and also runs a number of very popular clubs, including Automobile Society and Robotics. Examples of the

department's work and various extra-curricular activities can be seen on Twitter and Instagram [@DTEhighgate](#)

Teachers at Highgate enjoy a welcoming, comfortable and exceptionally well-resourced environment and are provided with significant assistance from a range of support staff. Salaries are competitive at all levels.

**James Newton, the Deputy Head (Academic)** ([james.newton@highgateschool.org.uk](mailto:james.newton@highgateschool.org.uk)) or **Andy Thomson, Director of Design Technology** ([andy.thomson@highgateschool.org.uk](mailto:andy.thomson@highgateschool.org.uk)) are very happy to answer questions.

#### **APPLICATION PROCEDURE**

Please complete the on-line application form and attach a full curriculum vitae - including the names, addresses, telephone numbers and email contacts of two referees.

**Closing date: 15 February 2019 but applications will be considered as they are received.**

## Criteria for the post of Teacher of Design Technology Engineering

(to be read in conjunction with the details of the post)

### 1 Essential professional criteria

Criteria	How will these be tested or verified?
A good honours degree in Technology, or a related subject (eg Engineering)	Original degree certificate(s) Questions about subject specialisation (and course content for more recent graduates) Opportunities at interview to discuss techniques for teaching set topics
Experience of teaching academic lessons, either as an employed teacher or during a teaching placement, or the ability to do so	A 50-minute lesson to be taught to a Key Stage 3 or 4 class. Opportunity to comment on and grade pupils' written work
Excellent communication skills	Two panel interviews; lesson (as above)
The ability to use ICT fully in the teaching of Design Technology	Observed in the lesson Opportunities to recount experience and expertise at interview
The ability to establish good relations with colleagues and pupils, and to enthuse pupils for technology and engineering	Opportunities at interview to recount experiences where these skills have been demonstrated Questions which referees will be asked as part of the confidential reference request
Awareness and understanding of safeguarding and welfare of children	Questions at interview to test attitudes towards and knowledge of children's safeguarding and welfare Questions which referees will be asked as part of the confidential reference request
Sympathy with and knowledge of fundamental British values	Question at interview to test this

### 2 Desirable professional criteria

Criteria	How will these be tested?
A teaching qualification (eg PGCE, GTP)	Original certificate
Experience of teaching successfully in an academically selective school	Questions which a referee from an academically selective school will be asked as part of the confidential reference request Verification of a candidate's employment history
Knowledge of, and experience of teaching Design Technology at GCSE and at A Level	Opportunities at interview to recount experience of teaching and of successful strategies used in teaching these topics
The ability to teach electronics and programming	Opportunities at interview to recount experience and to give details of subject knowledge
A willingness to be involved in the wider life of the department (eg DT clubs, Automobile Society, visits) and school.	Opportunities at interview to recount experience of running or participating in such activities or to give ideas for these

## Person specification for teaching posts at Highgate

Highgate seeks to appoint teachers who will have the following proven qualities, or the potential to develop them. At interview, candidates will have the opportunity to demonstrate or give an account of these attributes.

- The energy, dynamism and stamina to contribute fully to the life of a busy co-educational independent day school.
- Willingness to contribute to the extensive range of activities provided for pupils and to support them in their co-curricular pursuits.
- Capacity for industry and initiative in both independent work and as part of teams of colleagues in academic work, pastoral care, sports and co-curricular activities.
- Profound and continuing interest in the academic subject / s to be taught.
- The depth of knowledge and agility of mind to allow flexibility in lessons, adapting delivery as appropriate in the light of pupils' responses.
- Empathy with pupils across the age and ability spectrum at Highgate and the ability to implement a range of teaching strategies to cater for each individual pupil.
- Awareness and understanding of matters relating to the personal, social, health and emotional development of Highgate's pupils.
- General knowledge of Child Protection issues and good practice, particularly relating to professional obligations on safeguarding the welfare of each child and avoiding guarantees of confidentiality in any disclosure.
- Capacity to deal sensitively with problems raised by pupils, in line with Highgate's pastoral policies and sanctions system, working in partnership with Highgate's designated staff i/c pastoral care.
- Ability to create effective rapport and a sound relationship with pupils, earning their respect and trust but maintaining proper professional boundaries by not deliberately courting popularity or friendship.
- Willingness and ability to liaise effectively and professionally between pupils, staff and parents when required, making accurate records of these exchanges.
- Patience and thoughtfulness to see any issues that may arise with pupils, parents or colleagues from a variety of perspectives.
- The ability to de-fuse difficult situations using different strategies such as careful listening, sensitive use of humour, praise and recognition where due, utilising the School's reward system.
- Retention of a sense of perspective and, on occasion, the invaluable ability to laugh at oneself.