



MERCHISTON EDINBURGH

Job Title: Teacher of Technological Education

Status: Permanent, full-time

Reporting to: Faculty Head - Technologies and Creative Arts

Faculty: Technologies and Creative Arts

Purpose of Post: Primarily to teach Design Technology & Engineering at all levels, including GCSE and A-Level. The ability to contribute across related subject areas is desirable, and applications from probationer teachers are welcome.

The Post: We require an outstanding teacher to join the Design Technology & Engineering department for September 2024, reporting to the Faculty Head - Technologies and Creative Arts. The successful candidate must be committed to the achievement of personal academic excellence, able to teach at all levels throughout the school, and will be expected to motivate and appropriately challenge young men of all abilities. A keenness to engage with the extracurricular MerchiSTEM programme is desirable.

The Department: As part of the Faculty of Technologies and Creative Arts, the Design Technology & Engineering Department currently comprises two members of teaching staff. Design Technology is supported by a dedicated technician and technician's workshop.

The department enjoys a good level of uptake at both GCSE and A Level and is well-equipped; including a laser cutter, 3D printers, two workshop areas, one computer room and two spacious breakout work spaces with IT. Additionally, the department is located within the same building as Art, Computing and Electronics, which further enriches the experiences the pupils have in the department, while contributing to STEM learning overall.

Design Technology & Engineering is taught to pupils from 1st Form (P6/Year 6). In the Junior School, pupils are taught the principles of design, materials and manufacturing through a number of exciting practical projects. From Shell (S3/Year 10) onwards, the pupils opt to study the subject at GCSE level and begin a two-year preparation for GCSE Design Technology. In the Sixth Form (S5/6, Years 12/13), we offer courses in Higher Design and Manufacture and A Level in Product Design or Design Engineering (for students who are also taking A-Level Physics and Mathematics). The department uses the OCR examination board. The successful candidate will be responsible for delivering theoretical, investigational, and practical lessons in Design Technology across the age range for 10-18 year-old boys.

Many Middle Years and Senior pupils take part in the enriching MerchiSTEM Activities programme with considerable success at Regional, National and International level.

Summary of the Key Features of the Post:

- To contribute widely and effectively to the continued success and development of the Design Technology Department;
- To lead by example in providing and ensuring excellent standards of learning and teaching for all pupils;
- To have passion and enthusiasm for Design and Technology and a desire to develop his/her own interests and expertise.

The Staff: We are a very friendly Common Room. Many staff joined Merchiston straight from university, others after taking a PGDE/PGCE. Some members of staff have worked at an Independent School before, others have not. Equally, there is a good balance in the Common Room between those with experience and those embarking upon their first post. What all staff members share is an enthusiasm for their work and a willingness to be involved in the life of the School beyond 'normal' school hours.

As a Teacher: Every teacher in the School is expected to possess, or work towards possessing, the professional qualities and capabilities which are recognised nationally by the GTCS and in accordance with the School's policies.

As a Tutor: All Merchiston boys have a personal tutor in addition to their Housemaster, who is responsible for their academic progress. All full-time teachers are expected to contribute to this tutorial programme for which training is given, and supporting materials provided. The role of tutor is integral to the life of the teacher and is an essential part of a boy's experience of Merchiston life. All members of staff are allocated to a pastoral House and many members of staff also serve as academic tutors to pupils in the Sixth Form.

As an Enthusiast: A schoolteacher is far more than a classroom teacher and tutor, and the School expects its teachers to contribute whole-heartedly to other aspects of school life by drawing upon their own interests and enthusiasms. All members of the teaching staff are expected to involve themselves widely in the School's co-curricular activities and to be fully committed to the ethos of boarding education.

As an Activities Leader: STEM learning at Merchiston is available to junior and senior pupils through the activity programme and compliments the 'technology' subjects of Science, Design Technology, Design Engineering (A Level), Computing, Electronics (GCSE) and Maths. In the Autumn and Winter terms the MerchiSTEM programme enters a number of international and national STEM competitions. Our major sports are rugby in the Autumn and Lent Terms, and cricket and athletics in the Summer Term. We also run extensive tennis and golf programmes with our Academy set up. We offer a range of other sports and activities, and all teachers are expected to contribute to the co-curricular programme.

Accommodation: Accommodation may be available on Campus for staff undertaking additional residential pastoral commitments.

Interested candidates can contact Dr Dale Cartwright, the Deputy Head Learning and Teaching, at dcartwright@merchiston.co.uk should they wish to discuss this post further informally.

	Essential	Desirable
Qualifications	<ul style="list-style-type: none"> • A relevant degree • A recognised Teaching Qualification • Registration with GTCS, or eligible for GTCS registration 	<ul style="list-style-type: none"> • Evidence of further study beyond degree
Experience	<ul style="list-style-type: none"> • Proven excellence in teaching • Experience in following agreed guidelines, schemes of work, and syllabi • Strong working knowledge of the Design Technology curriculum • Understanding of the strategies needed to establish consistently high aspirations and standard of results • A good knowledge of careers related to Design Technology • Understanding of raising and maintaining high educational standards 	<ul style="list-style-type: none"> • Experience of working in a Boarding or Independent School (though please note that this is not essential) • Willingness to learn our PASS/3sys data systems • Experience of preparation of candidates for entrance to leading universities. • Knowledgeable about contemporary developments in education • A good knowledge of careers related to STEM
Skills and knowledge	<ul style="list-style-type: none"> • Be able to demonstrate excellent subject knowledge and communicate this in enthusiastic and creative ways to challenge, engage and inspire students in achieving their full potential • Have a wide range of digital and practical skills and capabilities relevant to a contemporary design technology curriculum • Able to nurture the problem-solving, decision-taking, critical thinking, inquisitive ethos of the subjects • Ability to build and maintain effective relationships with staff and pupils through excellent interpersonal skills • Ability to work under pressure. Maintaining a good sense of perspective • Well organised and able to prioritise as necessary • Ability to tailor lessons to student needs 	<ul style="list-style-type: none"> • A thorough working knowledge of systems of tracking, monitoring and reporting • Have experience of electronics and/or computing ideally up to GCSE equivalent level, including both theoretical and practical work • Recognise the inter-related nature of Art, Design Technology, Engineering, Electronics and Computing specialisms within the school, and contribute to the future development of these complementary subjects • Have a good knowledge of 2D and 3D CAD modelling software
Personal Attributes	<ul style="list-style-type: none"> • Ability to influence and motivate people • Professional appearance and attitude • Enthusiastic with a good sense of humour • Approachable and a good listener • Willingness to become involved in the School's co-curricular programme 	<ul style="list-style-type: none"> • Reflective and evaluative • Keen to be involved in the wider aspects of school life

	<ul style="list-style-type: none"> • Willingness to become involved in boarding school life, including a role as a Tutor • Ability to work well within teams and independently • Optimistic, innovative and creative thinker • Confident, enthusiastic and committed • High level of self-motivation, resilience and energy • A passion for education and a making a difference • Commitment to safeguarding children and young people 	
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