



# Teacher of Design & Technology with Art (Part time)

Required for September 2021





# WELCOME



Thank you for considering the this role at North London Collegiate School.

North London Collegiate School was founded in 1850 by Frances Mary Buss, a pioneer in girls' education, and was the first girls' school in the UK to offer girls the same educational opportunities as their male counterparts. We aim to nurture and develop independent minded young women who have the drive to take advantage of the most of any opportunity they encounter and the desire to make a positive difference in the world.

As the Good Schools Guide 2020 says, "If you're looking for an unashamedly ambitious and academic school, look no further".

We are proud of our reputation as one of the top academic schools in the country, consistently achieving excellent results and with an impressive record of our students securing places at Oxbridge, Ivy League and other top universities.

Thank you for your interest in this post. I look forward to meeting you in the future.

Best wishes

Sarah Clark, Headmistress

# The School

Founded in 1850 and occupying an estate dating back to the 18<sup>th</sup> century, North London Collegiate School has an international reputation for academic excellence, combined with exceptional pastoral care and extra-curricular achievement. North London Collegiate is an academically selective school with around 780 students in the Senior School and over 300 pupils from the age of 4 in the First and Junior Schools. The School aims to provide an ambitious education for all its students through our established values of academic endeavour, excellence, pastoral care and international mindedness.

Examination results are outstanding, regularly placing the School in the top ten in The Times and The Telegraph League tables. In 2019, 89% of GCSE results were awarded grades 9/8, placing NLCS as the top performing school in the country. In addition to A levels, we offer the International Baccalaureate in the Sixth Form and have had an outstanding record of success. Our students gain an average point score of 40 or more, placing us as one of the highest-achieving IB schools in the world. Places are heavily oversubscribed, and entry is extremely competitive.

Our leavers receive offers from an impressive range of University destinations including Oxford, Cambridge, Harvard, Yale and Princeton, as well as other leading universities such as Warwick, Edinburgh, UCL and Imperial. We are extremely proud of our Alumnae (Old North Londoners), who have achieved international prominence in a wide variety of career pathways from music, drama and the arts through to science, sports, politics and the law.

We have an extensive schedule of extra-curricular activities including a weekly speakers' programme for all students in Years 11, 12 and 13. NLCS students regularly reach the finals of national and international competitions, such as FI in schools, chess, Young Enterprise, coding and debating. There is also a remarkable commitment to outreach and charity work, reflecting the rich and harmonious diversity of the school.

Following the opening of three partnership schools, NLCS Jeju (South Korea), NLCS Dubai, and NLCS Singapore, staff in the UK have opportunities to be involved in monitoring visits to these overseas schools, and to be involved in the recruitment and training of their staff. Teaching departments in all the schools are linked via Communities of Practice, which provide a forum for collaboration on projects between teachers and students, sharing of good practice and exchange of ideas.







Y13 Enrichment

# The Role

This is an exciting opportunity for a dynamic and well-qualified Teacher of Design & Technology to be a part of a new and growing department. Teaching within the Engineering, Design and Technology department will initially start with Year 7 through to Year 9 from the Autumn Term 2021. Suitable candidates will have a desire to play a key role within the growth of the department and as such have the highest aspirations for their students' work and outcomes.

# Curriculum

Engineering, Design & Technology is a newly introduced area of the curriculum at NLCS. It is already proving to be extremely popular with students and is set to play a large and exciting role in supporting the schools growing STEAM agenda.

Currently delivered to all girls in Years 7-9, students work within two core areas. Firstly; Creative Innovation, which sees students respond to technical challenges such as Wind Turbine Blade Design, NASA Payload Delivery and solving practical problems using crumble robots. These projects support the effort to develop design confidence and an understanding of the iterative design process. Secondly; Focused Skills Building, delivered through focused practical tasks. These support the development of confidence in using a wide range of hand and machine tools as well as CAD and CAM processes. From next September the department will offer timetabled enrichment to support passionate senior girls across KS4-5, offering the ability to nurture the most passionate students in exciting and open ways not bound by exam board guidelines. From September 2022 we will offer students the option to take GCSE Design and Technology (AQA) with a vision to offering A Level beyond that as the New IDEAS Hub facility comes online.

In the Art department students work with different teachers across different specialisms, including fine art/painting, printing, graphic and screen-based design and ceramics. Ideally a suitable candidate would be able to offer teaching in one of these areas.

A handful of our older students already go on to study within the field of Design and Engineering at top universities with the department playing a key role in supporting girls ambitions outside of the curriculum, through academic support, Arkwright scholarship involvement and leading the Y13 girls in the provision for Engineering Society. The growth of the Engineering, Design and Technology Department in coming years will no doubt see even more girls see these fields as a viable and desirable career option.

# The Department

The department team is currently made up of one full time Teacher and one fully time department technician. This role is an exciting opportunity to be part of a department that will see significant growth over the coming years. Classes are currently taught in a standalone department that saw a full renovation last year. It houses a large Design Studio with brand new suite of 27" touch screen PC's for CAD as well as three Ultimaker S5 3D Printers and clever touch board. Joined to the Studio is a good size workshop kitted out with all the expected workshop tools and machinery including a GCC Laser cutter. A generous budget enables students to explore and finesse a broad range of techniques and approaches both as part of the curriculum and beyond.

The exciting plans for the IDEAS Hub due to complete in 2023 will see the department move into a leading purpose built facility for Engineering, Design and Technology and Art. The E, D&T department will then feature dedicated facilities including; two resistant materials workshops, a CNC workshop, a metal fabrication workshop as well as two Design Engineering Studios and a 3D printing hub.

# STEAM

As a school we embrace a STEAM vision, this seeks to encourage students to apply their understanding across disciplines. The Engineering, Design and Technology department is playing an increasingly important role in building collaborative links created across the school. This can most easily be seen in the collaboration in the FI in Schools program, Engineering Society and within project delivery that has clear and exciting crossover with Science, Computing and Geography.

# Extra-Curricular Activities

The department highly values the extra-curricular opportunities we can offer. Currently the department's main lunchtime club is VEX IQ, for which we have 5 teams who started this year and are ambitious to compete against other schools once COVID-19 allows. As well as VEX we offer girls the opportunity to come in and use the facilities for anything we can accommodate. This includes but is not exclusive to the support of other school the FI in School Program, young enterprise and Arkwright Scholarships.

The department has ambitious plans to offer trips when life returns to normal. Locally we will have opportunities to visit the Design Museum, as well as the Made in Brunel and New Designers exhibitions. We also have the opportunity to take girls to Engineering and Product Design in Action talks, while further afield the hope is to take students to the Big Bang Fair in 2022. When international travel allows there is an ambition to run residential trips to Italy (Bologna) and even an ambitious NASA trip to America. Students also enjoy a regular programme of lectures from visiting speakers as part of the Engineering Society and the Young Engineers group.

All members of staff are expected to make a contribution to the extra-curricular life of the School.

## Professional Opportunities and Development

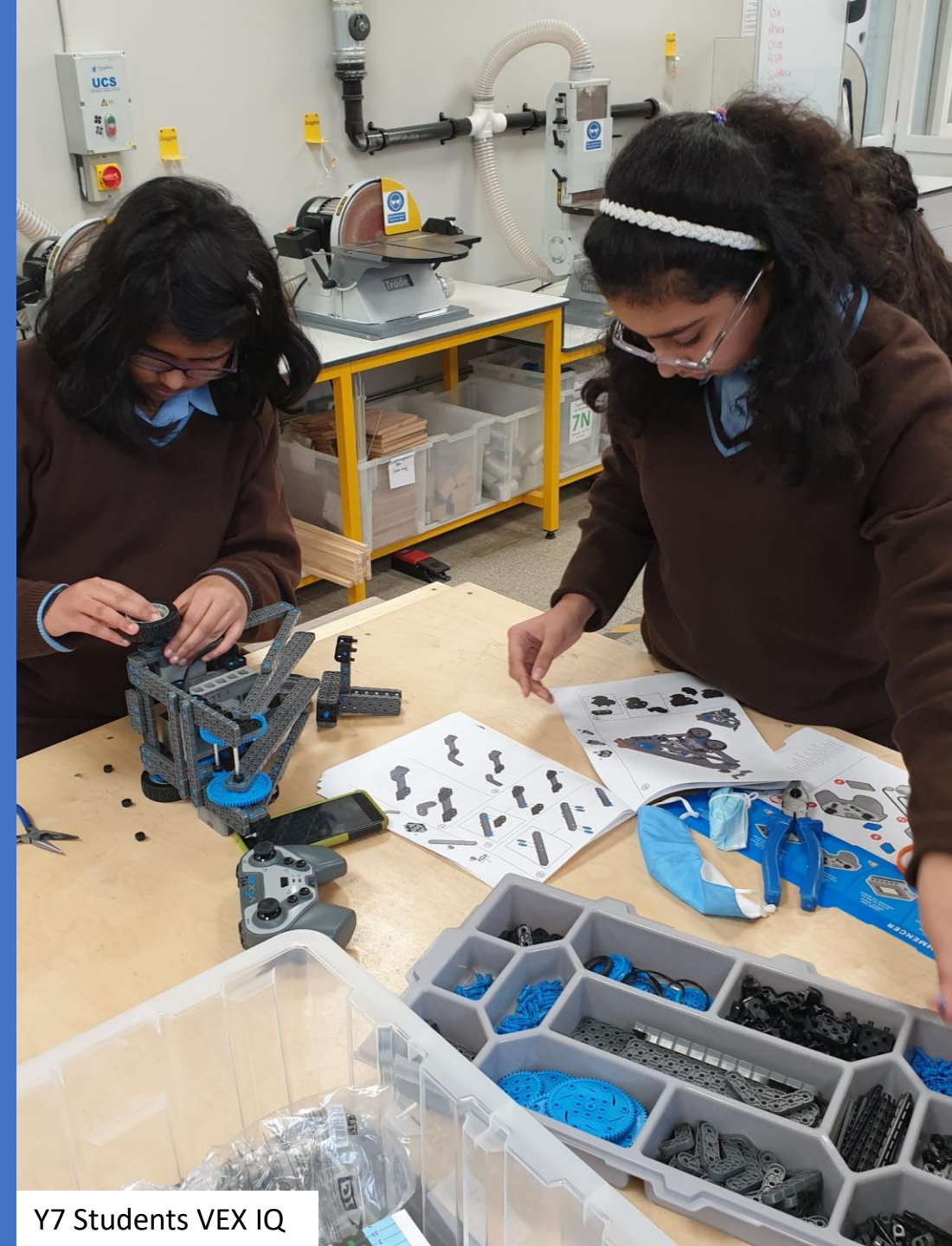
There is a strong culture of professional development at the School, rooted in the expectation that all staff proactively seek to develop their practice throughout their time with us. A fortnightly Teaching and Learning Forum offers staff the opportunity to present and discuss academic research, while the active Journal Club encourages colleagues to keep abreast of the latest research discourse. In addition to this, there are regular learning walks and guided lesson observations with senior members of staff, to encourage colleagues to think critically about their own teaching and experiment with new approaches.

Internal promotion and professional development posts are advertised to all staff. In addition, the School also offers a number of generous external opportunities for staff, to expose them to wider educational experiences.

The School works closely with The Prince's Teaching Institute which provides residential, subject specialist teacher training to the maintained sector. The School invests in 'unlimited' membership of the PTI, which offers our staff the opportunity to attend their full programme of events. It is important for our teachers to refine their knowledge to further enhance the academic rigour of their lessons. To this end several of our academic staff lead PTI sessions in their own specialist areas including the Head of Engineering, Design and Technology who is on the recently formed Design and Technology panel.

As part of the wider Senior School, we benefit from being able to attend the Senior Societies lecture series given by eminent speakers, including, Margaret Beckett, John Bercow, and Conrad Wolfram. Staff are also encouraged to share their passions through our Nicholson Lectures series. Colleagues present their own research on areas of academic or personal interest. These lectures occupy a prestigious place in our academic calendar, occurring fortnightly and well attended by staff and students alike.

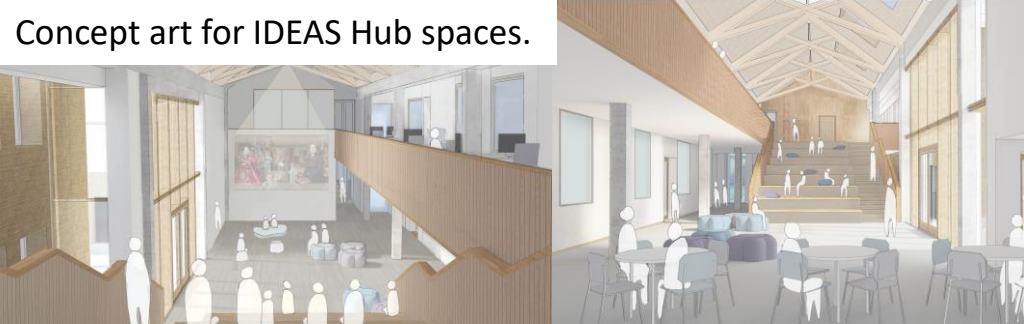
All of these opportunities enable colleagues to become better and more rounded academics and teachers, and our staff relish the chance to get involved in such activities. The School has an Early Career Framework programme in place supported by ISTIP, however a commitment to lifelong professional development is at our core.



Y7 Students VEX IQ



Concept art for IDEAS Hub spaces.



# Person Specification

|                                       | Essential criteria   | Desirable criteria  | Measured by              |
|---------------------------------------|--|---|--------------------------|
| <b>Education &amp; Qualifications</b> | <ul style="list-style-type: none"><li>• Strong academic qualifications in a subject relevant to Engineering, Design and Technology</li><li>• A high degree of technical skill</li><li>• The ability to teach to the highest level in school</li><li>• Suitable for early career teachers</li></ul>   | <ul style="list-style-type: none"><li>• Further study beyond degree level</li><li>• The ability to teach Art and/or 3D design</li><li>• Recent subject-related professional development</li></ul>   | Application              |
| <b>Skills &amp; abilities</b>         | <ul style="list-style-type: none"><li>• A genuine interest in design and engineering</li><li>• Ability to enthuse others about all elements of the Design and Technology curriculum</li><li>• Evidence of excellence in the classroom</li><li>• Experience in working with 3D CAD software such as Fusion 360 or Onshape</li><li>• Competence in a range of hand and machine tool usage.</li><li>• Ability to enable excellent pupil outcomes</li><li>• Evidence of a commitment to pastoral care</li><li>• Excellent communication skills, both written and verbal</li><li>• The desire to participate in extra-curricular activities and trips</li></ul> | <ul style="list-style-type: none"><li>• Evidence of innovative teaching and application of pedagogical strategies in the classroom</li><li>• Track record of excellent pupil outcomes.</li><li>• Wider interests that could contribute to the extra-curricular life of the School</li><li>• Evidence of own practice in design.</li></ul> | Application<br>Interview |
| <b>Experience and knowledge</b>       | <ul style="list-style-type: none"><li>• Knowledge of Design and Engineering paths for students.</li><li>• Evidence of working collaboratively in a small team.</li></ul>   | <ul style="list-style-type: none"><li>• Evidence of contribution to departmental enrichment activities</li><li>• Experience of planning schemes of work</li></ul>   | Application<br>Interview |
| <b>Other</b>                          | <ul style="list-style-type: none"><li>• Well organised</li><li>• Flexible</li><li>• Ability to prioritise</li><li>• Reflective practitioner</li></ul>  |   | Interview                |



## Terms & Conditions Pension

The successful candidate will be eligible to join the Teachers' Pension Scheme.

## Staff Benefits

- Some staff accommodation is available on site
- There is free use of the School's coach service and exclusive use of the indoor swimming pool, fitness suite and sports hall
- Staff children who are selected to join the Senior School enjoy 25% fee remission (for up to two daughters)

## Appointment Procedure

Candidates should apply through our recruitment system by clicking [here](#). Applicants should submit the following:

- A one-page letter of application
- Completed Application Form. CVs are welcome alongside the Application form
- References will be taken prior to interview unless indicated otherwise

*The School is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment. The successful candidate will be asked to apply to the Disclosure and Barring Service for an Enhanced Disclosure.*

## Key dates

Closing Date for applications is Wednesday 14th April at 09.00am.

Longlist interviews will take place on Friday 16th April.

Final interviews will take place on Tuesday 20th April.





North London  
Collegiate School



Founded 1850