



CHATHAM & CLARENDON GRAMMAR SCHOOL

Job Description

Job Title:	KS4 & KS5 3D HUB Technician
Department:	Design Technology
Location:	Chatham & Clarendon Grammar School
Grade:	Band 4 Point 11
Responsible to:	Head of DT
Responsible for:	N/A

Overview of Job:

- As an enthusiastic and energetic Industrial/Product designer/technician or engineer you will be required to run a CAD/CAM HUB at this forward thinking Design Department at a successful Grammar School.
- You will be responsible for the running of the Design Technology department's 3D HUB and the running of 13 Ultimaker 3D printers CAM machines including laser cutters, and multi axis CNC routers.
- All of the CAM facilities will require regular maintenance and servicing whilst also fulfilling other technician and teaching assistant responsibilities such as providing and preparing materials and apparatus, as required by the teacher, to support the teaching of the subject at KS4 and KS5.
- You will be required to maintain and check the apparatus, and advise if stocks are low and need ordering.
- There will be a reasonable level of CAD work using Solidworks, Autodesk and the Adobe Creative Suite.
- You will have excellent communication and organisational skills, this is particularly important as there will be regular contact with students and outside agencies.

Specific Responsibilities and Key Tasks:

- Running the department's Create Education 3D HUB
- Maintenance of CAD CAM facilities
- Supporting students in lesson and in afterschool clubs
- Helping provide and monitoring access to the 3D HUB during school hours
- Delivering 3D HUB project with other schools and outside agencies
- Ordering of materials and consumables for the smooth running of the 3D HUB
- Working with head of department to further/grow the 3D HUB

Desired Skillset

- Strong computer literacy, knowledge of Mac OS/Microsoft OS and their constituent software
- A good knowledge of a variety of design software; Autodesk, Solidworks 2014, Adobe Creative suite
- An understanding of 3D printing, the limitations and possibilities 3D printing presents
- Varied knowledge of workshop processes and an understanding of CAM facilities
- Good level of initiative and creativity with a concise and methodical approach
- An awareness of the flexibility and changeable state a school generates
- Flexibility and dynamic approach to assisting students with practical and theory based work
- Good communication skills and interpersonal skills with the ability to communicate on a variety of levels

Duties and Responsibilities

- The position will involve a high level of CAD/CAM work, primarily the organisation and running of the 3D HUB, currently situated within the senior school teaching facilities.
- You will communicate regularly with all the companies, organisations and schools that require use of the 3D printers.
- The role will also require the use and regular maintenance of all the CAM facilities.
- The role will require regular communication with KS4 and KS5 students.

Qualifications and Requirements

- Appropriate University entrance qualifications
- A full DBS & Social media clearance (provided by the school) to allow work within the school environment
- Theoretical and practical knowledge of engineering and design, including materials, processes etc.
- Ability to competently operate a variety of CAD/CAM equipment including 3D printers

Organisational Chart:

The DT Technician is responsible to the Head of DT.

To perform such duties as the Headteacher may reasonably require or that professionalism dictates.