

Job Title: Technician Demonstrator in Programmable and Digital Technologies

Unit/School: Cardiff School of Art & Design

Grade: 6AB

HERA: CSAD36

Core purpose of role

The Technician Demonstrator in programmable technologies will be based on the Llandaff campus and will be delivering a range of advanced, high-level skills-based workshops across the School.

Learning, research and enterprise in Cardiff School of Art and Design (CSAD) is often practice-based, experimental and experiential. It is dependent on the sound and informed management of all workshop and studio areas and the effective delivery of opportunities for skill development, based on demonstrations and guidance provided by skilled Technician Demonstrators (TDs), in environments that are monitored and maintained for both the health and the safety of their users.

A key member of student-facing staff, the Technician Demonstrator, under the line management of the Resources Manager, is responsible for: the delivery of inductions and demonstrations of skills in their area of expertise; the good management of materials, equipment, studio and workshop facilities; formal and informal technical advice on the development of skills needed for studio and other work; liaison across the technical team and with academic and professional services colleagues; and all such relevant tasks as are delegated.

The role requires a very high level of specialist technical expertise, an ability to communicate well with students, work with academics and administrators with flexibility and attention to detail, excellent ability to manage equipment, resources and spaces, and a passion for all that an art school can do.

Key responsibilities and contributions

The role of the Technician Demonstrator will include some or all of the following duties, as directed by the Resources Manager and/ or lead technician demonstrator and carried out in liaison with module leaders and other academic staff:

- Supervision of creative practices, processes in CSAD's workshops and studios to facilitate student learning. Providing practical and technical support and ensuring appropriate access to materials and equipment.

- Developing and delivering practical workshops in programmable technologies, simple electronics, and project prototyping within the context of creative practices.
- Develop and maintain own skill base and knowledge, ensuring currency with new and emerging techniques and developments. Apply the application of new knowledge to demonstrations and student support.
- Maintain knowledge of the curriculum requirements for workshop and studio support, to ensure technical support is tailored to learning outcomes. Identify and review any areas for further development, to enhance the student experience.
- Advising students and providing technical tutorials in applying interactive technologies to creative projects.
- Developing learning materials and content for use in our virtual learning environment.
- Maintaining a mobile electronics workshop; ensuring that appropriate materials are sourced and stocked, procuring supplies and providing materials to students in line with procurement and school policies.
- Ensuring all equipment within the area/s of responsibility are in place and functioning effectively and safely and maintain asset inventories.
- Prepare and implement a maintenance schedule and advise the School on the need and options for the update and replacement of equipment in order to ensure the appropriate resources are in place.
- Health & Safety; ensuring the safety of staff, students and visitors by developing safe working procedures, carrying out risk assessments and COSHH assessments, and ensuring that all safe working practices are observed. Advising, as required and when needed, on risks and risk assessment associated with practice-based work and exhibition on sites external to the University.
- Working in liaison with academic and technical staff to further shape and develop technical provision.
- Assist with the staging and resetting of the annual degree shows, and assisting other technical colleagues as required.
- Any such other reasonable duties and responsibilities as may be required from time to time.

Person specification

Essential qualifications / Professional memberships

1. Degree or equivalent in a relevant subject such as product or engineering design, electronics or robotics, or significant experience in creative applications of programmable technologies.

Essential experience, knowledge and skills

1. Demonstrable technical / specialist skills in a relevant discipline and a proven interest in on-going skill development.
2. Demonstrate a broad, practical knowledge of electronics & PCB design.
3. Proven ability to program electronics using systems such as, Arduino, Raspberry Pi and ESP32.
4. Ability to prepare and deliver workshop activities and relevant material in virtual as well as physical spaces.
5. Ability to communicate well and to present issues in a clear concise manner.
6. Clear commitment and interest in an area of specialism and a desire to share both traditional and contemporary knowledge and motivate students.
7. Ability to manage equipment, resources and spaces.
8. Ability to work practically as part of a team to achieve goals within a specific time frame.
9. Ability to deliver a relevant range of advanced, high-level skills-based workshops relating to the range of CSAD courses and students.
10. Working knowledge of electrical safety measures and requirements.
11. A commitment to ongoing development of knowledge and skills.
12. Ability to solve technical problems creatively.

Desirable

1. Experience of carrying out risk assessments and COSHH assessments.

2. Experience of delivering workshops, teaching or instruction within a higher education setting
3. Ability to carry out PAT testing.

Welsh skill requirements

Welsh is essential to our students and staff and is a key part of our provision and services. For every position at Cardiff Met, proficiency in Welsh language is either essential or desirable. You can find information about the levels by viewing our booklet: [Welsh language skills levels](#). If a skill is listed as essential in the table below, please ensure you demonstrate this in your online application form.

Language level and general descriptor	Listening	Reading	Speaking	Writing
A1 – Beginner Can understand and use familiar everyday expressions and very basic phrases in Welsh.				
A2 - Basic user Can deal with simple, straightforward information and communicate in basic Welsh.				
B1 - Intermediate user Can communicate, to a limited level, in Welsh about things that are familiar and/or work related.				
B2 - Upper intermediate user Can express myself in Welsh on a range of topics and understand most of a conversation with a native speaker.				
C1 - Fluent user Can communicate fluently in Welsh.	Desirable	Desirable	Desirable	Desirable
C2 - Master user Can communicate fluently on complex and specialist matters in Welsh.				

Disclosure & Barring Service requirements

This post does not require a DBS check.



Supporting information

The University is a dynamic organisation and changes may be required from time to time. This job description and person specification is not intended to be exhaustive.

The University is committed to the highest ethical and professional standards of conduct. Therefore, all employees are expected to have due regard for the impact of their personal behaviour and conduct on the University, students, colleagues, business stakeholders and our community. Each employee must demonstrate adherence to our Code of Professional Conduct. In addition, all employees should have particular regard for their responsibilities under Cardiff Metropolitan University's policies and procedures.