

## Candidate Information

<b>Position:</b>	Technician
<b>School/Department:</b>	Mechanical & Manufacturing Engineering
<b>Reference:</b>	22/110188
<b>Closing Date:</b>	Monday 26 September 2022
<b>Salary:</b>	£25,642 - £29,619 per annum
<b>Anticipated Interview Date:</b>	Monday 10 October 2022
<b>Duration:</b>	1 year

### **JOB PURPOSE:**

To provide specialist technical services to academic staff, research staff and students to support research and teaching projects.

### **MAJOR DUTIES:**

1. Using electrical and/or instrumentation skills, design, modify, manufacture and install control circuits according to specifications for teaching and research related purposes. Ensuring work is of a professional quality and best practice is used.
2. Contribute to carrying out tests / experiments using measurement and instrumentation techniques for the purpose of logging data required for test result analysis.
3. Contribute to the development, testing, construction, and modification of equipment and/or techniques used for projects and research, applying technical knowledge and experience.
4. Provide relevant technical information, advice, guidance, and training/demonstration on the use of specialised equipment or techniques to academic staff, students, and others.
5. Maintain, test, fault find, rectify, and repair technical equipment / apparatus to ensure it is safe to use and complies with relevant statutory safety regulations. Ensure general workshop / laboratory services tidiness.
6. Responsible for overseeing specific activities and processes of a work area/laboratory/research project and provide technical supervision of students.
7. Comply with Health and Safety procedures affecting self and others.
8. Contribute to compiling / updating technical information and documentation records of equipment and processes carried out in the laboratories.
9. Contribute to maintaining / monitoring stock levels in stores, to ensure there is always an adequate stock of materials and equipment to supply project and research areas.
10. Prepare materials, set up specialized equipment / apparatus for experiments and teaching demonstrations used by staff and students in laboratory practical classes and research.
11. Carry out any other duties which are appropriate to the post as may be reasonably requested by Supervisor.

### **ESSENTIAL CRITERIA:**

1. OND/ONC and/or NVQ level 3 or above (or equivalent standard) in an engineering discipline e.g. Electrical or Electronic engineering and/or a recognised, apprenticeship completed in an engineering environment.
2. Three years' recent relevant post qualification/apprenticeship experience with either industrial automated control systems or instrumentation equipment used for data logging and measurement processes.
3. Ability to follow technical diagrams and instructions.
4. Good mechanical assembly skills and experience of using some workshop machinery e.g. pillar drills, band saws etc.
5. Good IT literacy skills.
6. Good communication and interpersonal skills.
7. Proven ability to work in a team as well as own initiative
8. Ability to prioritise own work to meet deadlines.
9. Ability to think logically and formulate plans to solve problems.
10. Willing to gain experience and learn new skills and techniques.

**DESIRABLE CRITERIA:**

1. Health & Safety Qualifications (e.g. NEBOSH, IOSH)
2. Demonstratable understanding/experience of any of the following:
  - Machinery safety circuits and standards.
  - Portable Appliance Testing.
  - Working with hobby electronics such as Arduino or battery powered remote control models e.g. drones, aircraft or similar.
  - High voltage batteries, battery management systems and powertrains used in electric vehicles.
3. Able to demonstrate:
  - A well-developed understanding of relevant regulations and procedures including health and safety requirements.
  - An ability to write basic safe operating procedures and instructions for other staff and students to follow.
  - Knowledge of working with and manufacturing composites.
  - Knowledge of materials testing techniques and associated equipment.
  - Knowledge of pneumatic control processes.