Aston University
BIRMINGHAM UK

Electrical/Electronics Technician



Reference: 1767-26

Grade: 7

Salary: £ 31,861 to £ 37,639 per annum, depending on experience

Contract Type: Permanent

Basis: Full time

Job description

Job Purpose:

The primary purpose of this role is to provide technical hands-on support for teaching, research and project-based learning. We are seeking a skilled Electrical/Electronics Technician to join our Technical Team. You will be working closely with students, academics and researchers, helping bring ideas to life through design, construction and testing of electrical systems, prototypes and working models. The role is a varied one that blends practical laboratory work with teaching support, equipment management, and collaboration across disciplines.

Main Duties/Responsibilities

Teaching & Learning Support

- Deliver laboratory demonstrations and provide practical instruction to students during lab sessions
- Support student projects with guidance on circuit design, component selection, troubleshooting, and safe working practices
- Train students and academic staff in the use of technical equipment, test instruments, and relevant software as and when required
- Prepare and maintain laboratories for scheduled teaching activities

Design, Build & Prototyping

- Design, construct, and test electrical/electronic circuits, assemblies, and prototypes for university and research projects
- Produce working models and display pieces for demonstrations, exhibitions, and outreach events
- Diagnose faults, carry out repairs, and perform modifications to existing equipment and systems

Equipment & Inventory Management

- Manage local inventories of tools, components, and consumables
- Coordinate with technical staff and academics on purchasing requirements
- Recommend equipment upgrades, repairs, and new purchases from capital budgets
- Maintain equipment in safe, working order through regular inspection and preventive maintenance

Health, Safety & Compliance

- Ensure compliance with health and safety legislation across all laboratories and workshop activities
- Take a proactive approach to identifying and mitigating risks
- Maintain accurate records and documentation as required

Team Collaboration & Flexibility

- Work flexibly as part of the broader technical team, providing and receiving cover as workloads and absences require
- Support marketing and outreach events involving laboratory and workshop showcases
- Undertake other duties commensurate with the role as reasonably requested

Additional responsibilities

- Engage in continuous personal and professional development in line with the demands of the role, including undertaking relevant training and development activities.
- Ensure and promote the personal health, safety and wellbeing of staff and students.
- Carry out duties in a way which promotes fairness in all matters, and which engenders trust.
- Promote equality of opportunity and support diversity and inclusion as well as working to support the University's environmental sustainability agenda and practices.

Person specification

	Essential	Method of assessment
Education and qualifications	Relevant qualifications in electrical/electronic engineering (e.g., HNC/HND, City & Guilds, or equivalent experience) Or Apprentice trained electronics engineer.	Application form and interview
Experience	Proven experience in a similar role. Good level of IT skills for electronics CAD packages (e.g. KiCAD, Proteus or equivalents). Printed Circuit Board Schematic and layout Design experience. Experience of using microcontroller platforms (Arduino, RaspberryPi or similar). Experience with programming languages such as 'C', 'Python' or similar. Experience in hand soldering preferably including Surface Mounted Device's.	Application form and interview.
Aptitude and skills	Capable of supervising large groups in a laboratory setting Strong grasp of experimental techniques; able to guide students through lab work	Application form and interview.

	Essential	Method of assessment
	Skilled in the routine repair and upkeep of scientific equipment Proactive in learning and adopting new technologies Able to explain complex gear and tasks to groups or individuals Clear communicator of safety rules and technical instructions Solid working knowledge of Health and Safety regulations Willing to assist other university teams when needed.	

	Desirable	Method of assessment
Education and qualifications	Level 6 or higher qualification (e.g. degree, degree apprenticeship, level 6 NVQ award) in an electrical/electronic engineering, or power electronics related subject.	Application form
Experience	Experience in electronic prototyping and power electronics. Effective oral and written presentation skills.	Application form and interview
Aptitude and skills	Ability to take initiative in identifying and addressing laboratory needs, sustainability opportunities, or equipment issues without direct supervision. Proven ability to work alone and take initiative without supervision Team player Ability to prioritise tasks and stay flexible under pressure.	Application form and interview

University values

All staff are expected to demonstrate/promote the University's values and expectations, which are an integral part of our strategy and underpin the culture of the University. In addition, our leaders are expected to be accountable, help to execute strategic visions of the University and share and set clear expectations that inspire those around them.



How to apply

You can apply for this role online via our website https://www2.aston.ac.uk/staff-public/hr/jobs.

Applications should be submitted by 23.59 on the advertised closing date.
All applicants must complete an application form, along with your CV.

Any CV sent direct to the Recruitment Team and Recruiting Manager will not be accepted.

If you require a manual application form, then please contact the Recruitment Team via recruitment@aston.ac.uk.

Contact information

Enquiries about the vacancy:

Name: Ruchita Jani
Job Title: Technical Teaching Team Leader
Email: r.jani@aston.ac.uk

Enquiries about the application process, shortlisting or interviews:
Recruitment Team via recruitment@aston.ac.uk or 0121 204 4500.

Additional information

Visit our website https://www2.aston.ac.uk/staff-public/hr for full details of our salary scales and benefits Aston University staff enjoy.

Salary scales: https://www2.aston.ac.uk/staff-public/hr/payroll-and-pensions/salary-scales/index

Benefits: Benefits and Rewards | Aston University

Working in Birmingham: https://www2.aston.ac.uk/birmingham

Employment of Ex-Offenders: Under the Rehabilitation of Offenders Act 1974, a person with a criminal record is not required to disclose any spent convictions unless the positions they applying for is listed an exception under the act.

Eligibility to work in the UK: Where an individual is subject to UK immigration control, they will require a visa to work in the UK.

The following individuals do not need a visa for the UK, but do still have to prove their right to work before employment can commence:

- **British Citizens or Irish Nationals**
- **EU/EEA/Swiss nationals with Settled or Pre-settled status under the EU Settlement Scheme**
- **Non-EEA nationals with Indefinite Leave to Remain/Settlement in the UK**

The main routes available for those who need a visa to work in the UK are **Skilled Worker**, **Global Talent** and the **Graduate Route**.

Please see UKVI guidance for further information on eligibility, knowledge of English requirements and approved test centres https://www.gov.uk/skilled-worker-visa You can also find further information on our candidate immigration web page.

If you will conduct research in your role, you may need to apply for and obtain ATAS clearance before Aston can issue a Certificate of Sponsorship for your visa application. Please see our candidate immigration web page for further details.

Before you start and Right to Work

Right to Work Check
All employees must complete a Right to Work check before they commence work at Aston. HR will contact you during the onboarding process to arrange your check.

Cost of Living - Estate and Letting Agents
There are numerous Estate and Letting Agents that can help you find suitable accommodation. Useful websites for support and guidance https://www.gov.uk/government/publications/how-to-rent/how-to-rent-the-checklist-for-renting-in-england and https://www.citizensadvice.org.uk/housing/
You can also use property search websites such as Rightmove or Zoopla.

Equal Opportunities
Aston University promotes equality and diversity in all aspects of its work. We aim to ensure, through our admissions policies for students, and our staff recruitment and selection processes that we encourage applications from all groups represented in the wider community at a local, national and international level.

The University will endeavour not to discriminate unfairly or illegally, directly or indirectly, against student or potential students, staff or potential staff. This commitment applies to all functions of the University and to any stage of an individual's career.

An Equal Opportunities Monitoring Form is included within the application form. Data you provide on the Equal Opportunities Monitoring Form will be included in a general database, for statistical monitoring purposes, enabling the University to monitor the effectiveness of its Policy, Codes of Practice and Guidelines on Equal Opportunities in Employment. Individuals will not be identified by name.

Data Protection
Your personal data will be processed in compliance with the Data Protection Act 2018 and the General Data Protection Regulation ((EU) 2016/679) ("GDPR"). The University's Data Protection Policy and Privacy Notices, including the Job Applicant Privacy Notice can be found at https://www2.aston.ac.uk/data-protection. Your application will only be used to inform the selection process, unless you are successful, in which case it will form the basis of your personal record with the University which will be stored in manual and/or electronic files. Information in statistical form on present and former employees is given to appropriate outside bodies.
Full details of our terms and conditions of service and associated policies and procedures are available online at https://www2.aston.ac.uk/staff-public/hr/policies

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