

Job Title: Technician Demonstrator Biomechanics

Unit/School: Cardiff School of Sport and Health Sciences

Grade: 6A/B

HERA: CSOS97

Core purpose of role

The postholder will support the delivery of sport and exercise science / biomechanics programme portfolio including technical expertise and general administrative duties with specific responsibility within the area of Biomechanics.

Key responsibilities and contributions

- Supervise laboratory work undertaken by staff, students and visitors
- Demonstrate practical techniques and the operation of equipment to staff, students and visitors for taught practical sessions, research activities and projects
- Ensure that equipment and materials are in place at the appropriate times and that rooms and specialist facilities are ready for teaching and are functioning effectively and safely.
- Advise on the purchase of new and replacement equipment and consumables in line with the budget allocation.
- Maintain the inventory database ensuring that new equipment is recorded and labelled accurately, and obsolete items written off appropriately.
- Attend the school Health and Safety Committee and report issues and action any recommendation. Develop, maintain and review H&S management systems and processes and monitor compliance.
- Service, calibrate and carry out minor maintenance of laboratory equipment. Use initiative to resolve IT failures of scientific equipment
- Assist staff and students with data collections for research projects and other work.
- Discuss student progress with academic staff. Provide feedback to academic staff on a student's ability to progress and their skill level.
- Maintain knowledge of the requirements of academic modules to ensure that demonstrations can be designed to achieve the learning outcomes.
- Support the delivery of seminars aligned to practical work and which have been planned by academic staff

- Work with Technician Demonstrators in other areas and assist them with their duties as necessary and when workload requires.

Person specification

Essential qualifications / Professional memberships

- Degree in sport and exercise science, biomechanics, engineering or another relevant discipline

Essential experience, knowledge and skills.

1. Understanding of methodologies used in Biomechanics. (e.g., motion capture, force analysis, EMG etc).
2. Appreciation biomechanics laboratory equipment and consumables
3. Knowledge of Health & Safety and the impact this has upon self and others
4. Understanding of ordering and stock control procedures
5. Ability to plan, prioritise and organise own work and use initiative to progress requests made by others with the effective use of resources to achieve agreed objectives
6. Aptitude in the preparation of audio-visual materials and teaching resources.
7. Ability to demonstrate to others specific tasks or techniques on a specialist process within the post-holder's remit on an individual or group basis
8. Able to provide guidance to students, and give feedback on their progress to academic staff
9. Effective written and oral communication skills
10. Experience and expertise with scientific laboratory equipment including calibration procedures and minor maintenance
11. Experience of laboratory practices
12. Experience of appropriate computer hardware and software packages for data collection (Vicon Nexus, CodaMotion, Qualysis, or similar) and data analysis (Visual3D, Matlab or similar)

Desirable

1. Postgraduate degree in biomechanics or close to completion

2. Understanding of pedagogical principles that underpin student-centred teaching and assessment.
3. Independent use of motion analysis hardware such as Vicon and software (Nexus).

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.	Desirable	Desirable	Desirable	Desirable
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.				
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.