Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

JOB DESCRIPTION

Job Title:	**Senior Research Assistant (30 Months Fixed Term)**
Post Number:	**NH062XX**
Department:	**Cardiff School of Health Sciences**
Location:	**Llandaff**
Grade:	**4A/B**
Salary:	**£23,619 - £28,143 per annum** (maximum salary on appointment due to funding restrictions £27,578)
Tenure:	**Fixed Term from 1 October 2016 until 31 March 2019**
Hours:	**37 hours per week**
Accountable to:	**Principal Investigator**

Role Summary:

To undertake research in the areas of bio-engineering and audiological work, particularly the middle ear function and its related disorders.

Principal Duties and Responsibilities:

To contribute to the design of experiments in consultation with the Principal Investigator

To conduct individual or collaborative research experiments, including the development of bio-engineering models of the middle ear

To collect, record the audiological data, and subsequently conduct statistical analysis using mathematical models

To introduce, explain and provide on-going advice and guidance in the use of laboratory equipment to members of staff, students and visiting researchers.

To present information of experiments to research steering groups in a timely fashion

To be knowledgeable of the scientific literature relating to middle ear mechanics and to monitor new developments in the field of study

To prepare and present findings of research activity to colleagues for internal review

To prepare progress reports on the research from time to time as required by the supervisor for internal review purposes

To write up the results and contribute to the drafting and submission of papers to appropriate peer reviewed journals

To provide support contributing to the submission of grant applications for future research and enterprise activities

Additional Information:

Standard Notification

These guidelines are provided to assist you in the performance of your contract. The university is a dynamic organisation; therefore changes may be required from time to time. Any changes will be made in consultation with the post-holder. The Summary of Duties and Responsibilities is not intended to be an exhaustive list of tasks performed. Other associated technical tasks are likely to be performed as directed by the line manager.

It is accepted that individual staff will have a specialist skills and knowledge base in relation to the role they have been appointed to. In addition to this, Cardiff Metropolitan University expects that all staff will conduct themselves in a professional and courteous manner at all times and have particular regard for their responsibilities under Cardiff Metropolitan University's Equalities, Financial, Environmental and Sustainability, Human Resources and Health and Safety policies and procedures.

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PERSON SPECIFICATION

Post: Senior Research Technician

Unit/School: Cardiff School of Health Sciences

*Key

A - Application form
I - Interview
T/P - Test/Presentation

FACTORS	ESSENTIAL AND DESIRABLE CRITERIA	ASSESSED BY		
		A*	I*	T/P*
Education & Qualifications (Essential)	A good Postgraduate degree (e.g., Master) in a relevant area of Bio-engineering and Hearing Sciences or equivalent	√		
Education & Qualifications (Desirable)	A PhD holder in Bio-engineering and Hearing Sciences or equivalent			
Knowledge (Essential)	Apply principles and material technology of bio-engineering modelling to auditory system	√	√	√
	Understand middle ear mechanics, middle ear function and its related disorders	√	√	√
	Conduct statistical analysis using mathematical models	√	√	√
	Knowledge of research methods in a clinical setting	√		
	Knowledge and understanding of principles of Good Clinical Practice (GCP)	√		
Knowledge (Desirable)	Understand the principle and clinical application of wide band tympanometry		√	

Skills and Abilities (Essential)	Ability to use computer software (such as ANSYS) to develop middle ear models	√	√	√
	Ability to conduct high quality research [i.e., perform experiments and collect data in a clinical and or laboratory/audiological environment in a reproducible manner]	√	√	√
	Ability to validate the middle ear models by analysing the data and consequent identify areas for improvement using initiative and problem solving skills to improve the accuracy of the models	√	√	√
	Effective written and verbal communication skills	√	√	√
	Ability to speak fluently and to read in Chinese in order to review data that has been collected as part of the study	√	√	√
Skills and Abilities (Desirable)				

FACTORS	ESSENTIAL AND DESIRABLE CRITERIA	ASSESSED BY		
		A*	I*	T/P*
Experience paid / unpaid (Essential)	A level of research experience working with children with hearing problems	√	√	
	Experience of working on a research project within a multidisciplinary research environment in a clinical setting	√	√	√
	Experience of work with middle ear measurements, and finite element modeling	√	√	√
	Evidence of completed research projects	√	√	√
Experience paid / unpaid (Desirable)				
Other Requirements (Essential)	*The appointment of the successful applicant will be subject to a Disclosure and Barring Service check (DBS, previously CRB).	√		√
	Attention to detail	√	√	
	Ability to work flexibly with regard to working pattern	√		
Other Requirements (Desirable)	Willingness to travel and operate between campuses	√	√	
	Willingness to undertake further training	√	√	

*Please note that a criminal record may not necessarily be a bar to obtaining employment in Cardiff Metropolitan University. For further information on Disclosure and Barring Service (DBS, previously CRB) please go to https://www.gov.uk/crb-criminal-records-bureau-check