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| **Job Title** | Research Assistant in AI for Healthcare |
| **School / Service** | School of Architecture, Computing and Engineering |
| **Grade and Salary Range** | Research Assistant, starting from £38,022 per annum pro rata, inclusive of London Weighting |
| **Location and Hybrid working status** | Docklands Campus |
| **Reporting to** | Principal Investigator |
| **Liaison with** | UEL staff, UEL Research Support, research external partners |
| **Contract type** | Fixed term (6-months), part time (0.6 FTE) |

Build your career, follow your passion, be inspired by our environment of success **#BeTheChange**

**THE UNIVERSITY OF EAST LONDON**

If you are seeking a career that combines innovative education with a passion for crafting positive change, look no further than the University of East London. Founded in 1898 to meet the skills needs of the 2nd industrial revolution, we’re now in Year 5 of our ground-breaking 10-year Vision 2028 strategic plan, orchestrated by our Vice-Chancellor and President, Professor Amanda Broderick.

Our goal is to advance industry 5.0 careers-first education and provide a clear path to the jobs and opportunities of the future. We are committed to driving diversity in the 5.0 talent pipeline, working in partnership to promote talent wherever it is found and creating a sustainable, inclusive, and green future.

But we can't achieve this goal alone. We need forward-thinking, innovative, and curious individuals like you to join our community and help us shape the future. As part of our team, you'll have the opportunity to work with a diverse range of people who share your passion for generating positive change. We’re an inclusive and welcoming community that is constantly moving forward, never satisfied with the status quo.

If you're ready to join a team that values your outstanding skills and perspectives and is dedicated to making a difference, we invite you to explore a career with us. We are excited to welcome versatile individuals who are committed to advancing their careers while making a positive impact on the world.

**JOB PURPOSE**

The purpose of this post is to undertake research and development for one of our cutting-edge, innovative healthcare projects. The position will focus on developing an AI tool that can predict sports-related injuries, with a particular focus on tendinopathy, in collaboration with sports experts and specialists. The postholder will be based at the Smart Health Centre of the University of East London, Docklands Campus, London.

Under the supervision of the Principal Investigator, the Research Assistant will work to identify and recruit 200 college athletes from various sports disciplines who meet the project's eligibility criteria. They will also be responsible for obtaining informed consent from the participants and ensuring that all ethical guidelines are strictly followed. The Research Assistant will be responsible for conducting tests and measurements on the athletes to evaluate their neuromuscular performance. This includes assessing dynamic postural control, isometric hip and shoulder abduction and adduction strength, and core stability. They will ensure that all testing protocols are consistently applied and that the collected data is accurately recorded and stored. In addition, the assistant will be coordinating with the college sports organizations, athletes, and other stakeholders to ensure a smooth execution of the project.

This project may involve collaboration with industrial partners.

**KEY DUTIES AND RESPONSIBILITIES**

* Identify and recruit college athletes from various sports disciplines who meet the project's eligibility criteria and obtain informed consent from the participants.
* Conduct tests and measurements on the athletes to evaluate their neuromuscular performance. This includes assessing dynamic postural control, isometric hip and shoulder abduction and adduction strength, and core stability.
* Ensure that the collected data is accurately recorded and stored.
* Coordinate with the college sports organisations, athletes, and other stakeholders to ensure the smooth execution of the project.
* Assist with the documentation of the research process, findings, and conclusions. This includes helping to prepare research reports, presentations, and publications to disseminate the results of the study to relevant stakeholders, including the university, sports organizations, and the wider scientific community.
* Undertake the work-plan as defined in the Collaboration Agreement.
* Maintain effective communication between the University and partners, when needed.
* Participate in regular project team meetings and actively contribute to review meetings.
* Ensure compliance with University Health & Safety requirements and regulations and apply the University’s Equality, Diversity, and Inclusion Policy in general conduct.
* Take personal responsibility to develop and maintain a personal development plan.

This document outlines the duties required for the Research Assistant post and indicates the level of responsibility. It is not a comprehensive or exhaustive list, and the duties may be varied by the project team.

**PERSON SPECIFICATION**

**KNOWLEDGE, SKILLS, AND EXPERIENCE**

**Essential**

* Experience with Machine Learning.
* Knowledge of neuromuscular performance measures.
* Proficient with data collection and analysis methods, as well as standard statistical software.
* Familiarity with ethical guidelines related to human subject research and the process of obtaining informed consent.
* Ability to adhere strictly to research protocols and to handle confidential information responsibly.

**Desirable**

* Experience with integration tasks in a multi-disciplined project.
* Experience or understanding of agile product development.
* Critical thinking skills.

**COMPETENCIES REQUIRED**

**Essential**

* Excellent oral and written communication skills and ability to produce peer-reviewed publications and other research outputs such as reports and oral presentations.
* Demonstrable experience of being able to plan and prioritise workloads, ensuring deadlines are met, keeping clear and appropriate records.
* Experience of working on own initiative and in a multidisciplinary team within a varying environment.
* Able to demonstrate an understanding of equality and diversity, and its practical application.
* Commitment to the highest ethical and professional standards in research.

**EDUCATION, QUALIFICATIONS AND ACHIEVEMENTS**

**Essential**

* A degree in Life Sciences, Sports Science, or Biomechanics. MBBcH is essential.

**Desirable**

* Completed or working towards a post-graduate qualification, more specifically PhD, in Computer Science or other relevant subject areas.

UEL is an inclusive equal opportunities employer and are proud of our Equality, Diversity and Inclusivity achievements. We expect all employees of UEL to accept our EDI policy and will not tolerate discrimination in any form. As an employee of UEL, we expect you to follow all relevant Health & Safety policies.

So, if you’d like to take your career to the next level with us here at the University of East London and are passionate about our environment and commit to success, we want you to apply today!