Applications are invited from suitably qualified candidates for the following position:

Post-doctoral Researcher, Biomechanics

Insight Centre for Data Analytics

Fixed-term contract (7 months)

The Insight Centre for Data Analytics (http://www.Insight-centre.org) is an SFI funded Research Centre which brings together researchers from University College Dublin, NUI Galway, University College Cork, and Dublin City University, as well as other partner institutions, Trinity College Dublin (TCD), University of Limerick (UL), National University of Ireland, Maynooth (MU) and Tyndall National Institute. It creates a critical mass of more than 400 researchers from Ireland’s top ICT clusters to carry out research on a new generation of data analytics technologies in a number of key application domain areas, such as Health and Human Performance, Smart Communities, Internet of Things, Enterprise and Services and Sustainability and Operations.

The €150m Centre is funded by Science Foundation Ireland and a wide range of industry and European Union partners. Insight’s research focus encompasses a broad range of data analytics technologies from machine learning, decision analytics and social network analysis to linked data, recommender systems and the sensor web. Together, with more than 220 partner companies, Insight researchers are solving critical challenges in the areas of Connected Health and the Discovery Economy.

Role Profile

Insight wishes to recruit a Post-Doctoral Researcher on a fixed-term contract basis to facilitate the processing and analysis of already collected motion analysis and inertia sensor data from a prospective running injuries study, to help develop industry-funded research Targeted Project links related to biomechanics, and explore the feasibility of a running injuries intervention study. This role requires the candidate to have a strong background in human movement biomechanics, experience in industry partnerships and working knowledge of machine learning.

Duties and Responsibilities:

Please refer to the job description for a full list of duties and responsibilities associated with this role.

Qualifications and Experience

This position is open to candidates who meet the following criteria:

- PhD in a relevant discipline or equivalent 4 years fulltime research after primary degree
- Excellent knowledge and experience with biomechanical data collection systems, including: motion analysis systems (e.g. Vicon, UK), inertial sensors (e.g. Shimmer, UK), and insole pressure systems (e.g. Novel, Germany).
- Significant experience in examining the relationship between the biomechanics of human movement and either injury, performance or health.
- Experience in undertaking industry funded biomechanical-based research.
- Knowledge and experience of one or more of: MATLAB, Python.
• Knowledge of machine learning and advanced data analytical approaches.
• Knowledge of data warehousing standards.

Skills
• Excellent written and oral proficiency in English (essential), good communication and interpersonal skills both written and verbal.
• Proven ability to prioritise workload and work to exacting deadlines.
• Flexible and adaptable in responding to stakeholder needs.
• Strong team player who is able to take responsibility to contribute to the overall success of the team.
• Enthusiastic and structured approach to research and development.
• Excellent problem solving abilities.
• Desire to learn about new technologies and approaches to data analysis

Mandatory Training
The post holder will be required to undertake the following mandatory compliance training: Health and Safety and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.

Salary Scale: €37,874 - €49,049 per annum
*Appointment will be commensurate with qualifications and experience

Closing date: 3rd December 2019

Informal Enquiries in relation to this role should be directed to:
Dr Kieran Moran, Insight Centre for Data Analytics, School of Health and Human Performance: kieran.moran@dcu.ie, +353 1 7008011
Please do not send applications to this email address, instead apply as described below.

Application Procedure:
Application forms are available from the DCU Current Vacancies (open Competitions) website at http://www.dcu.ie/vacancies/current.shtml and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 7005149.

Applications should be submitted by e-mail with your completed application form to hr.applications@dcu.ie or by post to the Human Resources Department, Dublin City University, DCU Glasnevin Campus, Dublin 9, D09W6Y4.

Please clearly state the role that you are applying for in your application and email subject line: Job Ref #RF1295 Post-doctoral Researcher, Biomechanics

Dublin City University is an equal opportunities employer and is committed to promoting gender equality reflected in its attainment of the Athena SWAN Bronze Award. Information on a range of university policies aimed at creating a supportive and flexible work environment are available at www4.dcu.ie/policies/policy-starter-packs.shtml.