Research Centre: Insight Centre for Data Analytics

Post title: Senior Research Fellow in Multi-Modal Information Retrieval

Level on Framework: Level 3

Post duration: 2 years

Research Career Framework
As part of this role the researcher will be required to participate in the DCU Research Career Framework [http://www.dcu.ie/hr/ResearchersFramework/index.shtml](http://www.dcu.ie/hr/ResearchersFramework/index.shtml). This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path.

Background & Role:
The Insight Research Centre for Big Data Analytics ([http://www.Insight-centre.org](http://www.Insight-centre.org)) is a joint initiative between researchers at University College Dublin, NUI Galway, University College Cork, and Dublin City University, as well as other partner institutions. It will bring together a critical mass of more than 200 researchers from Ireland's leading ICT centers to develop a new generation of data analytics technologies in a number of key application areas. The €85m centre is funded by Science Foundation Ireland and a wide range of industry partners. Insight's research focus encompasses a broad range of data analytics technologies and challenges, from machine learning, decision analytics and social network analysis to linked data, recommender systems and the sensor web. And together with more than 30 partner companies Insight researchers are solving critical challenges in the areas of Connected Health and the Discovery Economy.

The Project:
The post is associated with the following research projects:

- Novel media analytics approaches for various Internet of Things application domains including smart cities, wearables and environmental monitoring. This project also requires the creation of end-user personas and scenarios as the basis to drive technical requirements and an understanding of the relevant ethical and data privacy considerations.
• PhD projects on (a) deep learning for content-based multimedia retrieval; (b) human activity recognition in cluttered scenes (c) interactive search and retrieval of large CCTV archives.

**Principle Duties and Responsibilities**

Reporting to his/her Principal Investigator the Senior Research Fellow will:

• Take a lead role in managing a specific programme of research under the supervision of the Principal Investigator.
• Identify and secure external sources of funding and manage budgets and resources accordingly.
• Disseminate the outcomes of the research in which he/she is engaged including publishing in high quality peer reviewed journals of international standing.
• Manage and supervise research groups and teams in particular adopting the lead role for the Multi-modal Information Retrieval Research Group in the Principal Investigator’s lab.
• Develop new models of research collaboration targeting key external stakeholders relevant to the projects outlined above.
• Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University.
• Engage in teaching and teaching support as assigned by the Head of School under the direction of the Principal Investigator, in particular for modules including Mobile Robotics and Advance Literature Analysis.
• Manage and conduct administrative and management tasks associated with your programme of research.

**Minimum Criteria**

Applicants should have a PhD in Engineering or Computer Science. Applicants should have a minimum of 6 years postdoctoral research experience or equivalent at Level 2 of the Research Career Framework. In addition, it is essential that the candidate has experience in user modelling, information retrieval, machine learning, and data analytics.

**Salary:** €63,125 to €65,032

Subject to experience and qualifications

**Closing date:** Friday 10th April, 2015

**Candidates will be assessed on the following competencies:**

**Discipline Knowledge & Research skills** –Demonstrates the ability to design and/or implement a substantial programme of research including initiating and leading new research programmes (for example by using critical judgement and an understanding of new research methodologies)
Understanding the Research Environment – Demonstrates a thorough understanding of the research environment both nationally and internationally, the ability to secure significant research funding and where relevant the ability to apply for intellectual property rights and/or patents for their research

Communicating Research – Demonstrates excellence in communicating their research nationally and internationally (for example by publishing in high quality peer reviewed journals of international standing and through invitation to participate in commercial research) and the ability to deliver teaching based on their own research

Managing & Leadership skills – Successfully leads and manages research programmes including the management and supervision of a small research team and the financial management of research programmes.

Application Procedure

Informal enquiries to:
Professor Noel O’Connor, Insight Centre for Data Analytics, DCU, Dublin 9
E-mail: Noel.OConnor@dcu.ie Phone: +353 (0)1 700 5078
Please do not send applications to this email address, instead apply as described below.

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 email to hr.applications@dcu.ie or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: Insert hr.applications@dcu.ie

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