Research Centre

**INSIGHT**

**Post title**
Postdoctoral Researchers x 2  
(PD_IN06)

Multimedia and Multi-modal content analysis

**Level on Framework**
Level 1

**Post durations**
2 & 3 Year Fixed Term Contracts

**Background**

The INSIGHT Research Centre for Big Data Analytics 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 centres to develop a new generation of data analytics technologies in a number of key application areas.

The €70m 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 Discovery Economy refers to novel products and services based on a better understanding of short and long-term user needs. It combines ideas from personalization and recommender systems with location-based services and the real-time social web. Connected Health advocates a technology-based model for healthcare delivery to maximize healthcare resources and provide increased, flexible opportunities for people to engage with clinicians and better self-manage their own care.
Within DCU, INSIGHT will continue the work done as part of the CLARITY CSET and will initially involve researchers across Materials Science and Chemistry, Computing, Engineering, and Health and Human Performance.

Research Career Framework
As part of this role the researcher will be required to participate in the DCU Research Career Framework. This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path.

Principle Duties and Responsibilities
Reporting to his/her Principal Investigator the Postdoctoral Researcher will:

- Conduct a specified programme of research under the supervision and direction of the Principal Investigator focused on extending current state of the art for multimedia content analysis and indexing. Specifically, research will focus on combining computer vision and audio analysis with weakly supervised machine learning to develop novel approaches to content understanding and indexing across a range of different application domains, e.g. broadcast, CCTV. An important aspect of the research programme will be to investigate how emerging human-centric sensing devices (e.g. BCI, eye-tracking, wearables) and social media sources can be leveraged in this regard thereby facilitating content analysis and understanding that goes beyond the traditional modalities of image, video, audio and text.
- Assist in identifying and developing future research and funding initiatives
- Engage in the dissemination of the results of the research in which he/she is engaged with the support of and under the supervision of the Principal Investigator
- Supervise and assist undergraduate students working in this area with their research
- 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
- Liaise with both internal and external stakeholders including industry and academic partners/collaborators
- Carry out administrative work associated with the programme of research as necessary
Minimum Criteria
Applicants should have a PhD on a topic related to multimedia content analysis, computer vision, content-based information retrieval. In addition, it is desirable that the candidate has good experience in machine learning and signal processing as well as working with digital libraries or media archival systems.

Salary: €37,750 - €46,255 subject to experience & qualifications

Closing date: 12th June 2013

Candidates will be assessed on the following competencies:

Discipline knowledge and Research skills – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.

Understanding the Research Environment – Demonstrates an awareness of the research environment (for example funding bodies) and the ability to contribute to grant applications

Communicating Research – Demonstrates the ability to communicate their research with their peers and the wider research community (for example presenting at conferences and publishing research in relevant journals) and the potential to teach and tutor students

Managing & Leadership skills - Demonstrates the potential to manage a research project including the supervision of undergraduate students.

Application Procedure:

Informal enquiries to:
Prof. Noel O’Connor, INSIGHT, Dublin City University, Dublin 9
E-mail: Noel.OConnor@dcu.ie Phone: +353 (0)1 700 5078

Application Procedure:
Applicants should quote Ref. No. PD_IN06 when applying for this position. Application forms are available at http://www.dcu.ie/vacancies/APPLICATION_FORM_8pg.doc and from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149 Fax: +353 (0)1 700 5500 Email: hr.applications@dcu.ie

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