



Insight Centre for Data Analytics
Research Fellow Level II
Fixed term contract up to 13th July 2019

Background

The Insight Centre for Data Analytics (<http://www.insight-centre.org>) is a joint initiative between researchers at Dublin City University, NUI Galway, University College Cork, and, University College Dublin, as well as other partner institutions. It brings together a critical mass of more than 450 researchers from Ireland's leading ICT centers to develop a new generation of data analytics technologies in a number of key application areas.

The €88m 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 from machine learning, decision analytics and social network analysis to linked data, recommender systems and the sensor web. Together, with more than 70 partner companies, Insight researchers are solving critical challenges in the areas of Connected Health and the Discovery Economy. Current project funding is to July 2019.

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> 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

Insight wishes to recruit a Research Fellow on a fixed term contract basis to facilitate the delivery of an Enterprise Ireland funded Commercialisation Fund project. The specific project for this role, involves **the development of novel strategies for video monitoring and surveillance, using video analytics and deep learning approaches for computer vision.**

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 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, teams of researchers comprised of Summer interns, undergraduate students, early-stage PhD students and Postdoctoral researchers.
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School of 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.
- Manage and conduct administrative and management tasks associated with your programme of research.
- Provide support and advice to PhD students and postdocs working on similar topics.
- Participate in Insight Centre activities, such as industry showcases and annual reviews

Minimum Criteria

It is essential that applicants have a PhD in Engineering or Computer Science. Applicants should have a minimum of 4 years relevant postdoctoral research experience or equivalent at Level 1 of the Research Career Framework. Previous experience at the level of Research Fellow (or equivalent) is preferred. In addition, it is essential that the candidate has a subset of the following skills

- Knowledge of one or more of: Java, C++, PHP, node.js, Objective-C, C.
- Knowledge of scripting languages: Python, Bash, Perl, JavaScript, d3.js.
- Experience working with UNIX, Linux, VMWare, Docker, OSX or Windows operating systems.
- Experience of developing web services.
- Database management skills: MySQL, MongoDB, SQL.
- Experience of developing machine learning, especially deep learning based applications.
- Experience in one or more deep learning frameworks, such as PyTorch, Tensorflow, Theano, Keras, Lasagne etc.
- Experience of modern techniques and implementations in computer vision.

Salary Scale: * €53,243 – €54,787

*Appointment will be commensurate with qualifications and experience and will be made on the appropriate point of the salary scale, in line with current Government pay policy.

Closing date: 18th May 2018

Candidates will be assessed on the following competencies:

Discipline knowledge and Research skills – Demonstrates the ability to design and implement part of a programme of research (for example by using critical thinking and the application of relevant research methodologies).

Understanding the Research Environment – Demonstrates a thorough understanding of the research environment both nationally and internationally and the ability to contribute substantially to grant applications.

Communicating Research – Demonstrates the ability to communicate their research effectively to the research community and wider society (for example by publishing their research in high quality peer reviewed journals) and the ability to teach and tutor students.

Managing & Leadership skills - Successfully manages research projects including the management and supervision of postgraduates and/or junior research staff.

Informal enquiries to: Prof. Noel O'Connor, Insight Centre for Data Analytics, Dublin City University E-mail: noel.oconnor@dcu.ie Phone: +353 (0)1 700 5078

Application Procedure

Application forms are available from the DCU Current Vacancies (Open Competitions) website at <http://www4.dcu.ie/hr/vacancies/current.shtml> and also 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

Please clearly state the role that you are applying for in your application and email subject line:
Job Ref: 885 Research Fellow Level II, Insight Centre for Data Analytics

Applications should be submitted by e-mail to hr.applications@dcu.ie or by Fax: +353 (0)1 700 5500 or by post to the Human Resources Department, Dublin City University, Dublin 9, Ireland.

Dublin City University is an equal opportunities employer