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

**Postdoctoral Researcher Level 1, TRACTION Project**

**Insight Centre for Data Analytics**

**Fixed-term contract up to 36 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 leading 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.

The Performance Engineering Laboratory (PEL) at DCU is a research group which aims at developing performance-based solutions for next generation information and communication technology (ICT) systems. The research carried out within PEL@DCU focuses on the areas of Mobile and Wireless Communications, Quality, Performance and Energy-aware Rich Media Content Delivery and Adaptive Technology-enhanced Learning and reflects the synergy between electronics, informatics and software engineering for ICT progress in the 21st century.

**Role Profile**

The specific project TRACTION for which these positions are advertised is funded by the EU Horizon 2020 programme and involves working with 8 other partners from 5 EU countries. TRACTION will be hosted by PEL@DCU and Insight Centre for Data Analytics and focuses on opera and will define new forms of artistic creation through which marginalised groups of people will work with artists to tell stories relevant to their life and present society. By combining best practice in participatory art with digital technology innovations, new approaches in the following three aspects will be proposed and tested: a) opera creation and production; b) immersive and interactive digital media; and c) social integration and community development.

In particular the project will perform research, design and develop a collaborative and participatory production toolset, establishing a novel workflow for co-creation and co-design of opera. The toolset will include a front-end for conversational support with wide artistic community, tools for user generated rich media capture, such as audio-visual content or immersive 360 videos, smart rich media editing mechanisms, narrative engines and algorithms and interactive adaptive media...
distribution technologies, that will provide as an outcome interactive audio-visual content to assist traditional and novel opera formats. The toolset will be tested in real life opera pilots.

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

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

DCU has a strong track record in attracting both Irish and European Union research funding under Horizon 2020 (and all previous Framework programmes), Marie Curie Actions and Erasmus. We offer a dynamic and internationally-focused environment in which you can advance your academic career.

**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.

**Qualifications and Experience**
This position is open to candidates who meet the following criteria:

- PhD in Computer Science, Engineering or a related discipline with strong software and programming skills and relevant experience in telecommunications or networking-related areas.
- Appropriate technical competence and research experience in areas related to computer networks, rich media processing and analysis, rich media content delivery, quality of service, quality of experience
- Good knowledge of Java or C/C++.
- Experience with modelling and simulations

**Skills**
- Excellent written and oral proficiency in English (essential)
- Excellent written and verbal communication and interpersonal skills
- Proven ability to prioritize workload and work to strict deadlines
- Ability to work in a team and to take responsibility to contribute to the overall success of the team
- Strong problem solving abilities

**Additional Information**
The successful candidates will be offered opportunities for developing their own careers in a number of directions including assistance for conference/workshop travel, upskilling through Insight’s continuous professional development in areas like research ethics and data privacy, student supervision and development and submission of their own research project proposals

**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.

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

Closing date: 6th December 2019

Informal Enquiries in relation to this role should be directed to:
Dr. Gabriel-Miro Muntean, School of Electronic Engineering, Dublin City University, Ireland
E-mail: gabriel.muntean@dcu.ie
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 #RF1297 Postdoctoral Researcher Level 1, TRACTION Project

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.