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

Research Centre	Insight SFI Research Centre for Data Analytics
Post title	Postdoctoral Researcher Specialist in Multimedia Networking
Level on Framework	Level 1
Post duration	Fixed Term Contract up to 36 months

Dublin City University

Dublin City University (DCU) is a leading innovative European University. It is proud to be one of the world's leading Young Universities and is among the world's top 2% globally. DCU is known as Ireland's University of Impact, with a mission to 'transform lives and societies' and focuses on addressing global challenges in collaboration with key national and international partners and stakeholders.

DCU has over 20,000 students in five faculties spread across three academic campuses in the Glasnevin-Drumcondra area of North Dublin. Thanks to its innovative approach to teaching and learning, the University offers a 'transformative student experience' that helps to develop highly sought-after graduates. DCU is currently No. 1 in Ireland for Graduate Employment Rate, and for graduate income (CSO).

DCU is a research-intensive University and is home to a number of SFI-funded Research Centres. The University participates in a range of European and international research partnerships. DCU is also the leading Irish university in the area of technology transfer as reflected by licensing of intellectual property.

As a 'People First' institution, DCU is committed to Equality, Diversity and Inclusion - a University that helps staff and students to thrive. The University is a leader in terms of its work to increase access to education, and is placed in the world's Top 10 for reducing inequalities in the Times Higher Education Impact Rankings.

The Insight SFI Research Centre for Data Analytics

The Insight SFI Research 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), Maynooth University (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.

The Project and Role
The employee will perform research on the SFI-funded project FRADIS, whose goal is to design, develop and test a framework for performance-aware differentiated multimedia-rich innovative services. This involves proposing a set of novel algorithms and protocols to perform dynamic performance, energy consumption and quality trade-off according to specific service requirements when supporting differentiated services in a 5G and beyond heterogeneous network delivery environment.

Duties and Responsibilities: Principal Duties and Responsibilities
Please see attached job description for principal duties and responsibilities of the role.

Qualifications, Skills and Experience Required
Applicants must have a PhD in Computer Science, Engineering or a related discipline with strong software and programming skills and relevant experience in telecommunications or networking-related areas.

Criteria
- An 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 programming languages e.g. Java and/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.

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

Essential Training
Training required for the role should be entered here. At a minimum, the following should be entered in addition to other applicable, role specific mandatory training:

The postholder will be required to undertake the following essential compliance training: Orientation, Health & Safety and Data Protection (GDPR). Other training may need to be undertaken when required.

Salary Scale: IUA Postdoctoral Researcher Salary Scale - €41,209 - €53,091
Appointment will be commensurate with qualifications and experience will be made on the appropriate point of the salary scale, in line with current Government pay policy.

Closing date: *Thursday, 9th February 2023*

For more information on DCU and benefits, please visit Why work at DCU?

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Informal Enquiries in relation to this role should be directed to:
Prof. Gabriel-Miro Muntean, School of Electronic Engineering, Dublin City University.
E-mail: gabriel.muntean@dcu.ie

Application Procedure:

Application forms are available from the DCU Current Vacancies website at
https://www.dcu.ie/hr/vacancies-current-vacancies-external-applicants

Applications should be submitted by e-mail with your completed application form to
hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line:
Job Ref #RF1783a Postdoctoral Researcher Specialist in Multimedia Networking