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

Senior Research Fellow

School of Computing

3 Year Fixed Term Contract

Role Profile

The Future Software Systems Architectures (FSSA) project jointly funded by the Disruptive Technology Innovation Fund (established by the Department of Business, Enterprise & Innovation), FINEOS and FourTheorem is a major new project at Lero / Dublin City University which will address a key emerging need in the global software business: how to migrate existing ICT systems to serverless microservices based architectures.

DCU are known established innovators who undertake leading-edge research in the software architecture field, and this experience is supplemented with the extensive know-how of FINEOS, a global market leader in core systems for life, accident and health insurance. FourTheorem are software architectural specialists and noted software innovators.

This is a ground-breaking innovative project, utilising leading-edge software architecture and machine learning techniques to address the challenge of migrating to future software systems paradigms.

This position is open to candidates who meet the following criteria:

Candidate will hold a minimum of a PhD degree. Additional industrial experience in large-scale software implementation would be desirable. Strong software and programming skills are essential. Candidates should be able to present a portfolio of projects and demonstrate evidence of a willingness to steer projects.

Additional Experience:

At this stage of the project, the SRF has an opportunity to propose implementation details most appropriate to the challenges encountered although the following is a strong indication of possible knowledge:
• Large scale java object oriented project implementations
• Understanding of AI values as applied in software development, e.g. clustering analysis and spectral clustering.
• Backend development, server-side development including database layer (e.g. Python, Django/Flask, Node.js)
• Cloud skills / deployments including dev-ops (e.g. Nginx, Puppet, Ansible)
• Knowledge of architectural patterns for OO monolithic and distributed software architectures
• Microservice and/or Function as a Service implementation
• Excellent written and verbal communication and interpersonal skills.

Closing date: 24th January 2020

Applications should be submitted by email to hr.applications@dcu.ie or by post to the Human Resources Department, Dublin City University, Dublin 9

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.