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

**Research Assistant**
**Future Software Systems Architectures**
**Up to 30 months Fixed Term Contract**

**Role Profile**

The Future Software Systems Architectures FSSA project is focused on developing AI based solutions to support the transition towards emerging software architectural paradigms, such as Function as a Service (FaaS). The FSSA project is jointly funded by the Disruptive Technologies Innovation Fund (DTIF), the FINEOS Corporation and FourTheorem Ltd.

This is a cutting-edge research-led project, attempting to adopt AI techniques to address a large emerging market need: the adoption of pay-per-use hardware paradigms / platforms. Partners to the project include Dublin City University, Lero – the Irish Software Research Centre, FINEOS and fourTheorem Limited.

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

Candidates will have a degree in an appropriate area or equivalent (NFQ Level 8). Typically an honours BSc in Computer Science, Software Engineering or a related discipline with strong software and programming skills and relevant experience in web application development with substantial backend integrations is expected.

**Additional Experience:**

**Technologies**

- Relevant development experience with at least one popular programming language such as Java, Ruby, Python, Node.js/JavaScript, Rust, Go, or C/C++, C#.
- Experience using existing libraries, frameworks, and RESTful APIs to create complex applications.
- Experience using code management and revision services such as Github and Bitbucket.
- Familiarity with Test Driven Development, Continuous Integration and Continuous Delivery.
- Strong communication skills for documenting workflows, tools, or complex areas of a codebase.
- Prior knowledge of static and dynamic source code analysis a distinct advantage.
Understanding of basic statistical clustering techniques would be beneficial.

- Ability to thrive in a fast-paced environment and multi-task efficiently.
- Ability to work and collaborate in a team.
- Strong analytical and troubleshooting skills.

**Closing Date:** 17th Jan 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.