



Dublin City University

Technical Architect

The Futures Software Systems Architectures Project

Up to 3 Year Fixed Term Contract

Overview

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.

Opportunity

This project presents the successful candidate with the opportunity to work in an exciting, fast moving and excellent technical environment, and to take the lead on managing the project implementation. The ambition of the team is to grow this research-led initiative into not just a leading centre of excellence for future software systems, but also to enable effective commercialisation of research work products.

Responsibilities

Reporting to the project lead Dr. Paul Clarke the TA will:

- Act as a technical architect (TA) and lead an agile engineering process within the project
- Demonstrate a commitment to quality over expediency in software development
- Engage regularly and effectively with project partners
- Contribute to the innovations in the project and identify creative solutions to challenging software architectural and implementation problems
- Mentor junior staff on good programming practices over see their day to day work

Skills

At this stage of the project, the TA has an opportunity to propose implementation details most appropriate to the user requirement specifications although the following is a strong indication of possible technologies:

- Backend development (preferably Python e.g. Django/Flask, Node.js)
- Database engineering (SQL, NoSQL, scaling)
- Database SQL query optimisation
- Cloud skills / deployments including dev-ops (Nginx, Puppet, Ansible)
- Knowledge of static and dynamic source code analysis techniques
- Microservice and/or Function as a Service implementation
- Large scale java object oriented project implementation
- Excellent written and verbal communication and interpersonal skills.

Minimum Criteria

Candidate will hold a minimum of a Degree (NFQ Level 7), plus 6 years of appropriate industrial experience in large-scale software implementation, including microservices. Strong software and programming skills are essential and relevant experience in web application development with substantial backend integrations is expected. Candidates should be able to present a portfolio of projects and demonstrate evidence of a willingness to lead projects.

Desirable

A candidate who holds a Phd in program automation, code analysis, data modelling or machine learning is desirable.

Mandatory Training

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

Salary Scale: €57,431 - €91,410 (Analyst Programmer III)

**Appointment will be commensurate with qualifications and experience, and will be made on the appropriate point of the Analyst Programmer 3 salary scale in line with current Government pay policy.*

Closing date: 11th October 2019

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) 1 700 5149.

Please clearly state the role that you are applying for, including the job reference, in your application and email subject line:

#RF1276 Technical Architect - The Futures Software Systems Architectures Project.

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

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