Applications are invited from suitably qualified candidates for the following position

Research Centre   Insight SFI Research Centre for Data Analytics

Post title   Web Software Engineer

Post duration   Fixed Term Contract up to 18 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.

Background
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 Project
Researchers at Insight have been developing state-of-the-art machine learning techniques for Natural Language Processing. These techniques have granted potential commercialisation opportunities in several sectors, particularly in traditionally conservative businesses. We are seeking people with a start-up mind-set to join our early-stage team developing a new software-as-a-service, which will dramatically improve workload efficiencies in conventional pen-and-paper markets. With output focused on our early-adopter clients, there is a significant opportunity for people with the right interests, enthusiasm and software skills to become part of a new high-growth company as the project develops.

The Role
We are seeking a backend web developer to design and develop a plug-in application for Microsoft Word that integrates with our AI software for analysing large corpora of written language documents. The developer will be responsible for backend application design and implementation of a portal, and integration of our software with our UI. The programmer will have a degree in computer science and have 3 years of experience in backend, cloud and web development.

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

Qualifications, Skills and Experience Required
Candidates must have a degree in an appropriate area or equivalent (NFQ Level 7), (typically an in Computer Science, Software Engineering or a related discipline), plus 6 years' appropriate experience.

The ideal candidate will have the following:
- Large scale object-oriented project implementations
- 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

In addition, candidates should have:
- Has strong programming skills in a few languages (e.g., C, C+, C#, Java, JavaScript, SQL)
- Backend development (preferably Node.js)
- Understands and builds test code at the unit level, service level, and integration level to ensure code and functional coverage

- Understand different application patterns to implement different types of business processes (e.g., APIs, event-driven-services, batch-services, web-applications, microservices); understands secure network protocols to protect data in transit (e.g., IPSec, TLS, PGP, others)
- Understands Continuous Integration (CI) and Delivery (CD) concepts and capabilities to support automation, pipelines, virtualization, and containerization; Aware of configuration management using tools (e.g., Puppet, Chef) and CI/CD tools (e.g., Artifactory, Jenkins, Git, Sonar)
- Familiarity with Visual Studio Tools for Office
- Excellent written and oral proficiency in English (essential).
- Excellent written and verbal communication and interpersonal skills.
- 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 candidate will be offered opportunities for developing their own careers in a number of directions including support 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.

Essential 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: Analyst Programmer III Scale €62,167 - €99,896

Appointment will be commensurate with qualifications and experience and in line with current Government pay policy.

Closing date: Friday, 3rd March 2023

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

Informal Enquiries in relation to this role should be directed to:

Professor Tomas Ward, Professor of Data Analytics, School of Computing, Dublin City University.

Phone + 353 (0)1 7006076. Email: tomas.ward@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 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 RF1786a Web Software Engineer Analyst Programmer