



JOB DESCRIPTION

***Trainee Analyst Programmer
Insight SFI Research Centre for Data Analytics
Fixed Term Contract up to 5 Months***

DCU

Dublin City University (www.dcu.ie) is a research intensive, globally engaged, dynamic institution which has developed its own research specialists, established internationally recognized centres of excellence that have substantive collaborative links with leading universities and industrial partners. DCU is distinguished both by the quality and impact of its graduates and by its focus on the translation of knowledge into societal and economic benefit. Through its mission to transform lives and societies through education, research and innovation DCU acts as an agent of social, cultural and economic progress. DCU is Ireland's fastest growing university and now hosts more than 17,000 students across its three academic campuses: DCU Glasnevin Campus, DCU St Patrick's Campus and CU All hallows campus. DCU has a strong track record in attracting both Irish and European Union research funding under Horizon 2020 (and all previous Framework Programmes), Marie Curie Actions and Erasmus. We offer a dynamic and internationally-focused environment in which to advance your academic career.

The Insight SFI Research Centre for Data Analytics

The Insight SFI Research Centre for Data Analytics (<http://www.insight-centre.org>) is a joint initiative between researchers at University College Dublin, NUI Galway, University College Cork, and Dublin City University, as well as other partner institutions. It brings together a critical mass of more than 400 researchers from Ireland's leading ICT centres to develop a new generation of data analytics technologies in a number of key application areas.

The €150m Centre is funded by Science Foundation Ireland and a wide range of industry 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.

Role Profile:

The Insight Centre is now recruiting for a Trainee Analyst Programmer position to join the FinAccAI team working on industry research & development projects funded by Enterprise Ireland through Commercialization Fund Awards.

Duties and Responsibilities:

The duties and responsibilities of the position include but are not limited to:

- Acquire and deploy technical architecture in an agile engineering process within the project.
- Active participation in additional training to attain competency in software engineering processes as necessitated.
- Demonstrate a commitment to quality over expediency in software development
- Engage regularly and effectively with project partners.
- Identify and populate in dialogue with the Principal Investigator and revised roadmaps for the proposed system.
- Develop cutting edge software based solutions to architectural and component transformation and modernisation, in strict accordance with Non-Disclosure Agreements (NDAs) as specified by project partners.

Qualifications and Experience:**Minimum Criteria**

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).

In addition to the above it is desirable that the successful individual possess a subset of the following skills and experience:

- Develop well-designed software that is clear, documented, tested and delivered continuously to production.
- Review requirements identified by the partners and project leads through customer workshops and communicated via the product backlog and participate in the clarification of features and estimates within the Scrum process. Ensure deviations from requirements are clearly documented and agreed with the project manager prior to completion.
- Take responsibility for the technical quality of the features delivered across the team, including documentation, testing strategies, and code.
- Identify and address product bugs, deficiencies, and performance bottlenecks.
- Remain up-to-date on emerging technologies and architecture and propose ways to use them in current and upcoming projects.
- Leverage technical knowledge to cut scope while maintaining or achieving the overall goals of the product.
- Leverage technical knowledge to improve the quality and efficiency of product applications and tools.

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.
- Familiarity with Test Driven Development, Continuous Integration and Continuous Delivery.
- Strong communication skills for documenting workflows, tools, or complex areas of a codebase.
- 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.

Additional Information

The successful candidates 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 post holder will be required to undertake the following essential compliance training: Orientation, Health and Safety, Research Integrity and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.