



**ADAPT**  
**Junior Software Developer**  
**(Fixed Term up to two years)**

The ADAPT Centre is Ireland's global centre of excellence for digital content technology. It combines the expertise of researchers at four universities (Trinity College Dublin, Dublin City University, University College Dublin, and Dublin Institute of Technology) with that of its industry partners to produce ground-breaking digital content innovations.

ADAPT brings together more than 150 researchers who collectively have won more than €100m in funding and have a strong track record of transferring world-leading research and innovations to more than 140 companies. ADAPT partners are successfully advancing the frontiers of content analysis, machine translation, personalisation, e-learning/education, media technologies and spoken interaction, as well as driving global standards in content technologies.

With €50m in new research funding from Science Foundation Ireland and industry and with ambitious targets for additional new funding under EU H2020 and other programmes, ADAPT is seeking talented individuals to join its growing team. Our research and technologies will continue to help businesses in all sectors to achieve unprecedented engagement among customers, companies and communities.

We now wish to recruit a Junior Software Developer on a fixed term contract basis to facilitate the delivery of platform and targeted research projects and to provide system administration support for the Centre's High Performance Computing Infrastructure. Working at the boundary of research and industry, the ADAPT Centre targeted research programme is an industry-focused programme where teams of researchers and research engineers collaborate with industry partners to work on solutions to industry needs. Successful Industry participation is key to the ability of the centre to deliver economic and commercial impact, and to its future sustainability.

**Duties and Responsibilities**

Junior Software developers develop prototypes and proof-of-concept applications based on the research that is done within ADAPT. Projects take between three and twelve months. You will be working with the best and brightest talent in language technologies, content analytics,

data analytics, adaptivity, personalisation, interoperability, translation, localisation and information retrieval. In addition, duties will include day to day administration of the Centre's High Performance Computing infrastructure. The successful candidate will have exposure to all aspects of project lifecycle from requirements analysis to design, code, test and face-to-face demonstrations to customers.

The Junior Software Developer will:

- Use well-established design patterns and software engineering practices.
- Create Virtual Machines and EC2 instances loaded with the necessary software and application dependencies.
- Implement and develop unit tests of individual software components to ensure functionality and robustness of software applications.
- Extensive experience of Git Hub and Databases.
- Work closely with UI and UX designers.
- Have a thorough understanding of, and experience with, development of web-based applications.
- Have a thorough understanding of, and experience working in an Agile environment and working with Agile methodologies.
- Ensure team members are up to date with the work that is done.
- Document all work to ensure code is easily understood by peers.
- Install new / rebuild existing servers and configure hardware, peripherals, services, settings, directories, storage, etc. in accordance with standards and project/operational requirements.
- Contribute to and maintain system standards (including performance and security)
- Research and recommend improvements for system administration tasks.
- Develop and maintain installation and configuration procedures for the infrastructure under supervision of the ADAPT Centre's System Administrator.
- Support the ADAPT Centre's System Administrator

### **Qualifications**

Candidates appointed to this role must have a primary degree in Computer Science or a related discipline (essential). The successful candidate will also have a minimum of one years industry experience (not required to be continuous)

### **Experience**

- Excellent knowledge of one or more of: Java, C++, PHP, node.js
- Excellent knowledge of scripting languages: Python, Bash, Perl, JavaScript, d3.js.
- Experience working with UNIX and Windows operating systems.
- Database management skills: MySQL, MongoDB, Neo4j.
- Knowledge of web application security.

- EC2 expertise
- Knowledge of and experience with NLP and Machine Translation is desirable
- Experience of front end frameworks such as Bootstrap is desirable
- Experience developing API's and Web services.

#### **Skills**

- Excellent written and oral proficiency in English (essential), good communication and interpersonal skills both written and verbal.
- Proven aptitude for Programming, System Analysis and Design.
- Proven ability to prioritise workload and work to exacting deadlines.
- Flexible and adaptable in responding to stakeholder needs.
- Experience in releasing code to live production environments.
- Strong team player who is able to take responsibility to contribute to the overall success of the team.
- Enthusiastic and structured approach to research and development.
- Excellent problem solving abilities.
- Desire to learn about new products, technologies and keep abreast of new product, technical and research developments.

**Closing date:** 29<sup>th</sup> June, 2016

**Salary scale:** Trainee Analyst Programmer: \*€33,436 - €35,613

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

#### **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 7005149.

**Please clearly state the role that you are applying for in your application and email subject line:**  
**Job Ref 355 Junior Software Developer**

Applications should be submitted by email to [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie) or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie)

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