ADAPT
Senior Software Engineer
Fixed Term Contract to December 2020

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. As part of the ADAPT Centre’s remit, it will also be responsible for the CNGL research programme as ADAPT is an evolution of the CNGL Centre.

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 Senior Software Engineer on a fixed-term full-time contract basis to join the Design and Innovation team at Dublin City University. The Design and Innovation Team collaborates with the Centre’s Industry Partners to develop prototypes and proof-of-concept applications based on the research that is done within ADAPT. Projects take between three and twelve months and involve working with the best and brightest talent in language technologies, content analytics, data analytics, adaptivity, personalisation, interoperability, translation, localisation and information retrieval. This is a great opportunity for a highly motivated individual to develop applications at the cutting edge of content research and technology. The successful candidate will lead one or more software
engineering teams and will supervise all aspects of project lifecycle from requirements analysis to design, code, test and interface directly with our customers.

**Duties and Responsibilities:**
The successful candidate will supervise the creation of prototypes that are developed for ADAPT’s Industry Partners.

The successful candidate will:

- Lead multiple projects, working closely with teams from requirement gathering stage to successful completion of projects.
- Working in an Agile environment manage delivery from concept/requirements definition to delivery. Ensure all team(s) members are up to date with the work that is done.
- Mentor and coach project teams composed of Research Engineers and Academics in relation to targeted Industry Partners research projects.
- Manage the software engineering process through daily stand up meetings, sprint planning and review sessions.
- Use Design Thinking methodologies like customer empathy, journey mapping, testing and iterations to create the best solution for our customers’ needs.
- Lean on and supervise the creative processes related to all projects; this includes problem analysis, user journey modelling, brain storming, concept development and wire framing.
- Work closely with UI and UX designers to ensure a full understanding of the solution specification is understood. This involves ensuring the specification is developed in accordance to the specification and ensuring deliverables are fit for purpose and meet expectations.
- Devise and develop processes for identification and management of project issues from the offset, lead identification and management of key risks on projects and work with teams to deliver resolutions on all problem areas.
- Maintain strong relationships with key stakeholders including academic, research and industry partners. Manage relationships to ensure requirements are gathered and delivered as specified.
- Liaise with academic, research and industry partners and provide visibility and status reports on project progress.

**Qualifications**
Candidates appointed to this post must have a primary degree in Computer Science or a related discipline (essential). The successful candidate will also have a minimum of six years
industry experience. Scrum Master Certification and experience working in a Research environment is highly desirable.

**Experience**

- Experience managing and supervising software engineering and project teams.
- Excellent written and oral proficiency in English (essential).
- Excellent 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.
- Strong team player who is able to take responsibility to contribute to the overall success of the team.
- Positive and structured approach to research and development activities.
- Excellent problem solving abilities.
- Desire to learn about new products, technologies and keep abreast of new product, technical and research developments.
- Strong background in software development and design.
- Experience in UI and UX design for web and mobile applications.
- Experience in designing architecture flows, wireframes and web application mockups.
- Experience in business analysis, project management, mentoring, coaching one or more teams of Software Engineers, Research Engineers and Academics.
- Possesses creative flair, versatility, conceptual/visual ability and originality with respect to design both print and online.
- Demonstrable graphic design skills in settings from workshops to larger steering groups with key stakeholders.
- Experience in communicating and presenting ideas to senior key stakeholders.
- Highly proficient in all design aspects
- Excellent knowledge of one or more of: Java, C++, PHP, node.js
- Experience in PHP frameworks such as CodeIgniter or Laravel is required.
- Excellent knowledge of scripting languages including Python, Bash, Perl, JavaScript, d3.js, etc.
- Database management skills including MySQL, MongoDB, Neo4j
- Excellent knowledge of web application security.

**Closing date:** 6\(^{th}\) July, 2015

**Salary scales:** Analyst Programmer III €54,331 - €83,022
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 112: Senior Software Engineer

Applications should be submitted by email to 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

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