



Research Assistant in Agile Software Development
LERO – The Irish Software Research Centre
School of Computing
Research Assistant – Level 1
24 Month Fixed Time Fixed Term Contract

The Irish Software Research Centre Lero (<http://www.lero.ie>) brings together leading software research teams from Universities and Institutes of Technology in a coordinated centre of research excellence with a strong industry focus. Lero has raised the level and profile of Irish software research with such effect that it is now one of the best known and highly regarded software research centres in the world. Lero specifically focuses on the key challenges of Evolving Critical Systems.

A vacancy exists for the positions of a Senior Research Fellow who will be involved in a project that address the challenges of Automation and Optimization in Agile Portfolio Planning. Agile portfolio planning involves the distribution of global resources across individual agile projects according to strategic choices. Although agile project management methods revolutionised the way how software projects are executed and organized especially in the last ten years, agile portfolio planning still not addressed properly from an automation and optimization perspective.

The aim of this project is to explore the key elements and strategies in agile portfolio planning and then create that allows to automate, optimize and create a stochastic model of the agile portfolio planning process..

The researchers will be based in the School of Computing at DCU and will work under the supervision of Dr. Markus Helfert. The researchers will join a team of Lero PhD students and Postdoctoral researchers and will work in close collaboration with researchers and developers in the partner company.

The ideal candidates will have research experience in:

- Have a minimum 3 years project planning experience
- Experience with MATLAB, JAVA, and PHYTON
- Experience in ES6 (JavaScript), Babel and React
- Experience with project management and project management methodologies
- Working knowledge of agile driven projects

Principal Duties and Responsibilities

Reporting to his/her project coordinator, the Research Assistant main duties will include:

- To contribute to literature reviews
- To collect and collate the research data
- To implement the portfolio planning element of the methodology
- To analyse and support the interpretation of the research data
- To maintain accurate project records and project confidentiality
- To contribute to academic articles, conference papers and other publications
- To engage and support other researchers working on projects affiliated to the Centre's research programme

Criteria

Applicants should have a MSc in a relevant discipline, evidence of Knowledge of Neural Networks, Fuzzy Logic and Knowledge of Business Process Management and SCRUM Software development and ideally experience with MATLAB. The candidate should have analytical and problem solving skills, and excellent communication skills as well as knowledge of some of the relevant academic literature. In addition, candidates should have a high level of interpersonal skills, team working skills, report writing, time management skills and ability to work to deadlines. Desirable attributes include experience in industry-led research, presentation skills and academic article writing skills.

Salary Scales:

* **Research Assistant:** €28,995- €34,612

* Appointments will be commensurate with qualifications and experience, and will be made on the appropriate point of the salary scales, in line with current Government pay policy

Closing Date: 30th November 2018 **Start Date:** 1st of January 2019, or as soon as possible.

Candidates will be assessed on the following competencies:

Discipline knowledge and Research skills – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.

Understanding the Research Environment – Demonstrates an awareness of the research environment (for example funding bodies) and the ability to contribute to grant applications.

Communicating Research – Demonstrates the ability to communicate their research with their peers and the wider research community (for example presenting at conferences and publishing research in relevant journals).

Informal Enquiries to:

Dr. Markus Helfert, DCU School of Computing - Email: markus.helfert@dcu.ie, Tel: +353 (0)1 700 5620

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 (Open Competitions) website at <http://www4.dcu.ie/hr/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 in your application and email subject line: Job Ref: #1054 Research Assistant. Lero – the Irish Software Research Centre.

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.

Dublin City University is an equal opportunities employer