Senior Research Fellow in Agile Software Development  
LERO – The Irish Software Research Centre  
School of Computing  
Senior Research Fellow – Level 4  
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 a methodology 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.

**Principal Duties and Responsibilities**

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

- To lead the research programme on Agile Software Development, both scientific and management
To co-ordinate the work programme and collaborate with the Industry Partner
To develop the agile portfolio planning methodology
To initiate and lead new funding rotes and new collaborations opportunities with industry
To develop literature reviews and oversee the research design for this project
To collect, collate and analyse research data
To maintain accurate project records and project confidentiality
To write and co-ordinate academic articles, conference papers and other publications
To contribute to public engagement activities and dissemination of research results
To engage and support other researchers working on projects affiliated to the Centre’s research programme
Developing the agile portfolio planning pilot
Develop a detailed methodology that allows to automate, optimize agile portfolio planning
Create stochastic models of the agile portfolio planning process

Criteria

Applicants should have a PhD in Engineering or a relevant discipline and at least 10 years of research experience and research supervision. The successful candidate will have an international research profile and a track record of publications record in high-quality international journals and conferences. Applicants must possess advanced computing skills, ideally the knowledge of using a simulation/optimisation environment such as MATLAB as well as that some relevant experience in industry is desirable. 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 with international patent output, presentation skills and academic article writing skills.

Salary Scales:

*Senior Research Fellow: €65,414 - €70,200

* 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 & Research skills – Demonstrates the ability to design and/or implement a substantial programme of research including initiating and leading new research programmes (for example by using critical judgement and an understanding of new research methodologies).

Understanding the Research Environment – Demonstrates a thorough understanding of the research environment both nationally and internationally, the ability to secure significant research funding and where relevant the ability to apply for intellectual property rights and/or patents for their research.

Communicating Research – Demonstrates excellence in communicating their research nationally and internationally (for example by publishing in high quality peer reviewed journals of international standing and through invitation to participate in commercial research) and the ability to deliver teaching based on their own research.

Managing & Leadership skills – Successfully leads and manages research programmes including the management and supervision of a small research team and the financial management of research programmes.

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: #1055 Senior Research Fellow 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.

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