

Senior Researcher: Software Development Engineer

The IMaR (Intelligent Mechatronics and RFID) Centre @ IT Tralee is an applied research centre delivering expertise in the areas of hardware (mechatronics, robotics and control systems), software (data management and intelligent systems), IoT (RFID, Sensors) and data analytics for increased productivity in the manufacturing, agriculture and process sectors to our regional industry partners.

IMaR is currently recruiting for a software design and development engineer who will take on an industry focused software development project in the area of livestock traceability within the shellfish farming sector. This wide-ranging role will give the successful candidate exposure to varied software engineering disciplines and experience with a variety of technologies.

This project is directly funded by Bord Iascaigh Mhara. The overall mission of the IMaR Centre is to be industries partner of choice for the provision of innovative applied research. The IMaR Centre serves a cross section of industries including Automotive, Telecommunications, Pharmaceutical, Production / Manufacturing, Aeronautical, Environmental and Agri-business.

Minimum Qualifications

Applicants are required to have a minimum of an honours degree in a computing, electronics or related discipline. Experience of software development and/or web development is essential. Experience with cloud infrastructure, Sensors and/or IoT related technology would be desirable.

Candidates **must** demonstrate the following:

- Strong software design and development skills.
- Familiarity with current developments in the area of software development, specifically databases and data stream integration.
- Familiarity with current developments in the area of Cloud Computing and/or the Internet of Things.
- Ability to exercise a degree of innovation and creative problem solving.
- Ability to work under the general supervision of a more senior colleague who will determine the broad direction of the work to be undertaken.
- Demonstrates clear, logical and concise written and oral communication skills.
- Ability to prioritise and meet deadlines.
- Ability to work independently in some activities and as part of a team.

The following skills would be desirable:

- Familiarity with object orientated programming languages such as Java, C#.
- Familiarity with Web based technologies such as Javascript, PHP, Web Services and DBMS.
- Self-motivated, reliable and hard-working
- Familiarity with live sensors data and Internet of Things related software technology.
- Familiarity with data presentation techniques and data analytics.
- Familiarity with the academic research and industrial environments and willingness to contribute to the group as a whole to develop future projects.
- Self-motivated, reliable and hard-working.
- Experience with Cloud based services.
- Familiarity with integrating Open Data/REST API's.



An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine

- Data Analytics and visualisation.

Job Role and Description

- Work on an applied industrial project creating a live inventory management system for the aquaculture sector, with a distributed/cloud database, integrating multiple live data-streams, data analytics and user dashboards.
- Work in the area of software development for data presentation and data analytics.
- Responsible for the development of demonstrator or proof of concept prototypes.
- Communicate with clients on project requirements
- Create project documentation.
- Work with other team members, including postgraduate and researchers as directed by the project lead.

Salary

This position is for a period 18 months. An attractive salary will apply to this post, dependant on employee qualifications and experience.

Application Procedure

All applications must be made online at www.ittralee.ie

Location

This post is located at IMaR in the Institute of Technology, Tralee however occasional visits will be essential to collaborate with Industrial and Academic Partners.

Informal Enquiries

Informal enquiries ONLY may be addressed to Daniel Riordan, email: daniel.riordan@staff.ittralee.ie

Closing date for applications is 12.00 Noon on Wednesday, 08th May 2019.

Applications received after the closing date will not be accepted.



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