

Research Assistant – Software Development (RFID, IoT and Data Analytics)

IMaR (Intelligent Mechatronics and RFID) at 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.

The principal theme of the **IMaR Centre** is the synergy between mechatronics, Sensors, RFID, Internet of Things (IoT) and Data Analytics for industrial applications driven by new technology, innovation and global demand. IMaR consists of two research strands **Intelligent Mechatronics** and **Radio Frequency Identification & Internet of Things** both focused on the delivery of a wide range of automation, identification and manufacturing services. IMaR is core funded by Enterprise Ireland under the Technology Gateway Programme and houses state-of-the-art research facilities.

IMaR is currently recruiting for a software design and development engineer who will take on a diverse range of industry focused software development projects in the area of Internet of Things, RFID systems, data analytics, wireless communications, sensor technology and web development. This wide-ranging role will give the successful candidate exposure to varied software engineering disciplines and experience with a variety of technologies.

The IMaR Centre offers an opportunity to work at the forefront of leading edge research across a large cross section of industries including Automotive, Telecommunications, Pharmaceutical, Production / Manufacturing, Aeronautical, Environmental and Agriculture. The centre is core funded by Enterprise Ireland and houses state-of-the-art research facilities. The overall mission of the IMaR Centre is to be industries partner of choice for the provision of innovative applied research.

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 Radio Frequency Identification (RFID), Sensors and/or IoT related technology would be desirable.

Candidates **must** demonstrate the following:

- Excellent technical skills with strong ability to design and implement solutions in Java, C#, PHP, JavaScript or Python.
- Familiarity with current developments in the area of software development.
- Familiarity with current developments in the area of RFID, Big Data 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 Java Script, PHP, Web Services, API's and DBMS.
- Familiarity with Cloud services, infrastructure and paradigms.
- Familiarity with Sensors and Internet of Things related hardware and software technology.
- Experience with GIT or other revision control systems.
- Familiarity with data presentation techniques, data analytics and mathematical modelling / statistical packages such as Matlab, R-Project, Pandas or similar.
- Self-motivated, reliable and hard-working
- Familiarity with the academic research and industrial environments and willingness to contribute to the group as a whole to develop future projects.
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Job Role and Description

- Work on applied industrial projects in RFID and IoT and in other areas of computing, including software development.
- Work on applied industrial projects in the area of 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 24 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 Keith Phelan, email: keith.ofaolain@staff.ittralee.ie

Closing date for applications is Monday, 12th of August 2019 at 12.00 Noon.

Applications received after the closing date will not be accepted