

IMaR Technology Gateway – R&D Software Engineer (Research Assistant)

The IMaR Technology Gateway in the Institute of Technology, Tralee is part of the Enterprise Ireland Technology Gateway Network, a nationwide resource providing innovation support and near-to-market technology solutions for industry and commercial enterprises.

The principal theme of IMaR is the synergy between mechanical, electronic, RFID and IIoT technologies for industrial / commercial applications. Research activities involve the development and integration of mechatronic and embedded systems, sensors, automation and robotics, instrumentation, Industrial Internet of Things (IIoT), and developing complete software solutions for intelligent systems including data/process analytics and artificial intelligence.

The overall mission of IMaR is to be industries partner of choice for the provision of innovative applied research and training, to support and deliver new product and business development and optimisation or enhancement of existing products and services. IMaR serves a broad spectrum of industries including Automotive, Heavy Engineering, Telecommunications, Pharmaceutical, Logistics, Production / Manufacturing, Environmental, The Marine, Healthcare and Agri-business.

The IMaR Technology Gateway is closely affiliated to the IMaR Research Centre and the AgriTech Centre of Excellence (ACE) and has access to the skills and expertise of over 40 full-time research professionals, expanding the Gateways' capabilities to autonomous vehicle technologies, augmented and virtual reality systems and engineering modelling and simulation.

The IMaR Research Centre will be a part of the Munster Technological University (MTU) when the MTU is established on the 1st of January 2021. The MTU will be a multi-campus technological university, contributing to the region through the provision of academic programmes that support student development and opportunities, education and research. Partnering with industry and community, MTU will invest in the future with state-of-the-art research, education, enterprise, cultural and sports facilities. MTU will have an extensive regional footprint with six campuses across the South-West region in Cork and Kerry.

Position

We are looking for a highly motivated and creative software engineer to work on the development of near-to-market technology solutions for our clients. The successful candidate will:

- Be responsible for delivering software prototypes to IMaR client organisations,
- Communicate with clients in relation to project scope and technical requirements,
- Create and maintain project and technical documentation,
- Work collaboratively with other team members.

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.

Qualifications and Experience

Applicants are required to have a minimum of an honours degree in a computing, electronics or related discipline.

Candidates must demonstrate the following:

- Excellent technical skills with a strong ability to design and implement solutions in Java, C#, PHP, JavaScript or Python.
- Familiarity with ongoing developments in the area of software development.
- Familiarity with ongoing 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 / attributes are desirable:

- 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.
- A zeal to progress product ideas / technical concepts to prototype/final products.
- Familiarity with the academic research and industrial environments and a willingness to contribute to the group as a whole to develop future projects.

Duration of Contract

This position is initially for a fixed-term 12 month contract.

Salary

A salary of up to Eur 34,930 will apply to this post, dependant on the candidates experience and qualifications.

Application Procedure

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

Location

This post is located at the Institute of Technology Tralee and involves regular visits to industrial partners in the region and academic partners nationally and internationally. Tralee is situated in the South West of Ireland in County Kerry – an area world-famous for its natural beauty and quality of life and the location of many high-tech indigenous and multi-national organisations.

Informal Enquiries

Informal enquiries ONLY may be addressed to Prof. Joseph Walsh, email: joseph.walsh@staff.ittralee.ie

Closing date for applications is noon on Wednesday 6th January 2021

Applications received after the closing date will not be accepted.