IMaR Technology Gateway – Senior R&D and Business Development Engineer (Strand Leader), Mechatronics

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 applications in the highly technological manufacturing industry driven by new technology, innovation and global demand. The research activities within IMaR ranges from the development and integration of mechatronic and embedded systems, sensors, automation and robotics, instrumentation, Industrial Internet of Things (IIoT), to developing complete software solutions for intelligent systems including 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 an experienced senior engineer to lead a team of mechanical and electronic engineers in the development of near-to-market technology solutions for our clients. The successful candidate will have broad experience in relevant technologies such as mechatronic and embedded systems, sensors, automation and robotics and instrumentation and related software systems. Understanding the opportunities and limitations of technology is critical, as is the ability to accurately plan and budget for innovation projects and conceptualise and facilitate the development of commercial applications for research. The role also requires identifying new business opportunities and promoting the capabilities and benefits of the Gateway technology offering to clients of Enterprise Ireland and other state agencies. As the Strand Leader / R&D Lead, the successful candidate will also develop and implement strategies to maintain and enhance IMaR capabilities.

Qualifications and Experience

- Relevant Honours level Engineering / Science degree or similar (such as Mechatronic, Mechanical, Electronic, Electrical, Software, Systems or Control Engineering).
- Masters or PhD degree in a related discipline *or* equivalent industry or research experience is necessary.

Requirements

The candidate will have a proven research / development record or significant industrial experience in at least two of the following technical disciplines, including relevant software and hardware:

- Embedded systems or Linux.
- Automation, control and robotics.
- Sensors and instrumentation.
- Data analytics, statistics.

It is a requirement of the position that the candidate be competent in software systems *such as*:

- Data analytics, visualisation and statistical modelling,
- Mathcad, Minitab, Matlab, OpenModelica or equivalents,
- Languages such as C, C++, Python, Matlab, R.
- Engineering design software / solid modelling.

The ideal candidate will be able to demonstrate:

- Extensive experience and knowledge in prototyping devices and platforms.
- Strong analytical and problem-solving skills with an ability to derive appropriate technical solutions to complex engineering problems.
- A record of good organisational and team-working skills with an ability or amplitude to plan and manage small to medium size projects.
- An ability to take ownership of technical problems, stakeholder management and development of robust and sustainable solutions.
- An ability to identify and evaluate emerging technologies and where necessary, influence research direction accordingly.
- A strong motivation to develop a personal research profile and to contribute to the ongoing success of the IMaR Technology Gateway and IMaR Research Centre.

Duration of Contract

This position is initially for a fixed-term 24 month contract.

Salary

A salary of up to Eur 50,029 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 Wednesday 6th January 2021

Applications received after the closing date will not be accepted.