

IMaR Research centre – Research Engineer (Electronics/Computing)

The IMaR Research centre in Munster Technological University, Kerry provides innovation support and near-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.

IMaR are currently engaged in the **EU funded project, SISTERS project**. The SISTERS project aims to identify a systematic innovative solution to reduce food wastage. IMaR are tasked to develop an action plan for the logistics stage in the food supply chain by implementing smart technology.

MTU is 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 is investing in the future with state-of-the-art research, education, enterprise, cultural and sports facilities. MTU has an extensive regional footprint with six campuses across South-West Ireland.

Position

We are looking for a highly motivated and creative researcher to work within the SISTERS project. The successful candidate will be responsible for delivering an innovation hardware and software solution using IoT (Internet of Things), sensor technology and cloud-based software. The researcher will be tasked with assisting the other SISTERS project partners in deploying the sensors and collecting data from the trials. The researcher will:

- Have a clear understanding of the technical requirements of the project, both hardware and software
- Be responsible for identifying hardware solutions as per the requirements of the SISTERS project,
- Liaise with partners to design, develop and test prototype hardware devices where necessary
- Be responsible for communicating with project partners in relation to project scope, technical requirements and ensuring deliverables are fulfilled,
- Create and maintain project and technical documentation,
- Work collaboratively with and provide guidance to other team members.

The successful candidate ideally will have experience in IoT technologies and/or embedded systems preferably including sensors, automation and/or robotics and instrumentation. The successful candidate will ideally also have experience of cloud based software systems and data analysis related to IoT systems.

Qualifications and Experience

Applicants are required to have a minimum of a bachelor's degree in Electronic, Mechatronic or Control Engineering / Applied Physics, Computing Science or Software Development or another engineering / science degree with relevant experience, ideally including project / stakeholder management experience.

The following skills / attributes are desirable:

- Familiarity with technologies in the area of Industrial Internet of Things and manufacturing systems
- Familiarity with embedded real time OS, IoT communication networks (LoRa, Sigfox, NB-IoT) • An ability to progress product ideas / technical concepts to prototype/final products
- Self-motivated, reliable with an ability to take ownership of technical problems.
- A strong interest in emerging technologies.
- A strong motivation to develop a personal research profile and to contribute to the ongoing success of the IMaR Research Centre.

Duration of Contract

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

Salary

An attractive salary (up to €45,633) will apply to this post, dependant on the candidates experience and qualifications.

Application Procedure

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

Location

This post is located at the Munster Technological University Kerry campus and will involve visits to project partners. 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 Dr. Pat Doody, email: pat.doody@mtu.ie

Closing date for applications is 1.00pm on the 3rd March 2022

Applications received after the closing date will not be accepted.