

Research Engineer

The Institute of Technology Tralee has established a world-class research centre in the area of Intelligent Mechatronics and Radio-frequency identification (RFID) i.e. The Intelligent Mechatronics and RFID Centre [The IMaR Centre].

The principal theme of the IMaR Centre is the synergy between mechatronics and RFID for industrial applications in the highly technological manufacturing industry driven by new technology, innovation and global demand. Mechatronics is a multidisciplinary field of engineering that includes a combination of mechanical engineering, electrical engineering, control engineering and computer engineering. Radio-frequency identification (RFID) is the wireless non-contact use of radio-frequency electromagnetic fields to transfer data, for the purposes of automatically identifying and tracking tags attached to objects.

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. The IMaR Centre will serve a cross section of industries including Automotive, Telecommunications, Pharmaceutical, Production / Manufacturing, Aeronautical, Environmental, healthcare and Agri-business.

IT Tralee/IMaR is also a member of the **Lero - Irish Software Research Centre**, one of Lero's strategic goals is to work with industry partners to identify and solve industry problems, generating new SW-based products & services thus ensuring that Lero's research is firmly connected to the real world.

Minimum Qualifications

- *Relevant Honours Degree (Level 8) in Engineering or Science or equivalent*

Role

- *Develop analytics to provide meaningful insight into animal health and performance data.*
- *Mathematical analysis and algorithm development for sensor data analysis*
- *Time series analysis and pattern identification*
- *Data mining*
- *Mathematical modelling of scientific problems.*

Requirements:

- *Excellent knowledge of Agriculture and especially Dairying*
- *Excellent knowledge of statistical analysis and software programs such as Mathcad/Octave/R or equivalent*
- *Be imaginative and persistent and have the ability to communicate clearly.*
- *Be logical and technically minded and possesses strong problem-solving skills*

The ideal candidate will also possess the following attributes:

- *Knowledge of programming tools such as C/C++ or VisualBasic and advantage*
- *Proven ability to take ownership of development projects.*
- *Self-motivated and able to work on own initiative, with excellent organisational and personal management skills.*
- *Professional and mature attitude to work with energy, drive and enthusiasm - to be a proactive member of the team.*

Duration of Contract

3.5 years

Salary

An attractive salary will apply to this post, dependant on employee experience and qualifications.

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 made to collaborate with Industrial and Academic Partners.

Informal Enquiries

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

Closing date for applications is 12.00 noon on Wednesday 6th September 2017

Applications received after the closing date will not be accepted.

