

## Senior Research Fellow/Project Manager (Mechatronic Systems)

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.

### Position

We are looking for a highly motivated, Senior Research Fellow/Project Manager to join the research team at IMaR. The successful candidate will collaboratively work and contribute to an on-going research project with one of our industrial partners.

### Minimum Qualifications

- Master's degree in Science or Engineering or equivalent.

### Requirements

We are particularly seeking a person who possess the following attributes:

- Minimum of 5 years experience in management of large scale projects.
- Experience in managing diverse project teams.
- Have a minimum of 10 years (post-graduation) Mechatronic Hardware Design.
- Experience of sensor system design and implementation.

- Working knowledge of manufacturing processes & instrumentation.
- Strong experience of CAD design packages.
- Good organizational skills.
- An ability to manage resources.
- Exposure to modern development technologies, frameworks & patterns.
- Experience and the discipline of working within a fast-paced test driven environment.
- Strong interpersonal and communications skills.

## Desirable Skills/Experience

- Excellent knowledge of Ship-to-Shore (STS) and Gantry Container Cranes.
- 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.
- Excellent interpersonal, teamwork and communication skills (both verbal and written).
- Ability to work on own initiative, in a fast paced environment with attention to detail.
- Excellent analytical and problem solving skills, an ability to understand complex problems and generate appropriate pragmatic technical solutions.
- Constantly promote awareness of best industry practices, providing company training as required.
- Energetic and eager to learn and implement new technologies when required.
- Focused on keeping your knowledge up to date.

## The ideal candidate will also possess the following attributes

- Knowledge of autonomous and adaptive systems and machine learning.
- 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

4 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](http://www.ittralee.ie)



## Location

This post is located at IMaR in the Institute of Technology, Tralee however 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](mailto:joseph.walsh@staff.ittralee.ie)

**Closing date for applications is 12.00 noon on Monday 25<sup>th</sup> June 2018**

**Applications received after the closing date will not be accepted.**

