

Research Assistant – Data Analytics and Machine Learning

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. IMaR has approximately 40 full-time researchers working across several distinct subject areas including automation, software development, RFID, data analytics, systems dynamics and simulation and machine learning.

Position

We are looking for a highly motivated Research Assistant to join the research team at IMaR. The successful candidate will collaboratively work on data analytics and machine learning projects in collaboration with industrial partners. The successful candidate may have the opportunity to lead aspects of the overall project.

Minimum Qualifications

- Relevant Honours level Engineering / Science degree or similar.
- Masters or PhD degree in a related discipline or industry experience is an advantage.

Requirements

- Experience in data mining techniques example data pre-processing, data analysis, pattern recognition etc.
- Experience in algorithm development and machine or Deep learning techniques.

- Experience in statistical analysis and software development.
- Proficient in at least one of the common analysis tools, such as Mathcad, Octave, R, Minitab, Matlab or equivalents.
- Proficient in at least one of the common programming languages, such as C, C++, Python, Matlab, R.
- Experience with electrical/electronic system, sensors or instrumentation will be advantageous.
- Strong analytical and problem-solving skills, an ability to understand complex problems and generate appropriate technical solutions.
- Strong interpersonal, teamwork and communication skills (both verbal and written).
- Be logical and technically minded and possess strong problem and organisational skills.
- Ability to take ownership of technical problems, self-motivated with the ability to work on own initiative.
- Be imaginative and persistent with energy, drive and enthusiasm.
- Professional and mature attitude to work - to be a proactive member of the team.
- Eager to develop a personal research profile and to contribute to the ongoing success of IMaR.

Duration of Contract

12 month contract

Salary

An attractive salary 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 / Kerry Technology Park, however it involves regular visits to Industrial and Academic Partners. Tralee is situated in the South West of Ireland in County Kerry – an area world-famous for its natural beauty, outdoor activities and quality of life.

Informal Enquiries

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

Closing date for applications is 12.00 noon on Tuesday 23rd April 2019

Applications received after the closing date will not be accepted.

