Mechanical Design Engineer

The Munster Technological University- 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 Research Centre is the synergy between mechatronics, Sensors, RFID, Internet of Things (IoT) and Data Analytics for industrial applications driven by new technology, innovation and global demand. IMaR consists of two research strands Intelligent Mechatronics and Industrial IoT & Data Analytics both focused on the delivery of a wide range of automation, identification and manufacturing services. 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, Retail, Aeronautical, Environmental, healthcare and Agri-business.

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. IMaR is also a member of Lero:- The Irish software research centre and CONFIRM – Smart Manufacturing Research Centre.

Position

We are looking for a highly motivated, Mechanical Design Engineer to join the research team at IMaR. The successful candidate will collaboratively work and contribute to a cutting-edge research project for robot attachment design and integration for dynamic applications in the AgriTech domain.

Minimum qualification

Masters in Engineering or minimum of 3 years relevant industry experience

Desired qualification

- PhD in Robotics or equivalent or relevant industry experience.

Job Requirements/ Experience/ Skills:

We are particularly seeking a person who possesses the following attributes/ skills:

- Hands on experience in 3D CAD(Autodesk inventor or similar).
- Hands on Experience in electro-mechanical integration.
- Working knowledge robot cell layout and health and safety requirements.
- Working knowledge of manufacturing processes & instrumentation.
- Good organizational skills and Team player.

- Exposure to modern development technologies, frameworks & patterns.
- Experience and the discipline of working within a fast-paced test-driven environment.

Desirable Skills:

- Hands on experience in the design of robot attachments.
- Hands on experience in robot programming (KRL/RAPID & C++)
- Be knowledge of Agriculture and especially Dairying.
- 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 be able to demonstrate:

- 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, publish research findings and influence research direction accordingly.

Salary

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

Duration of Contract

2+ years

Location

The position will be based at our industry partner near Tralee, Kerry Ireland.

Application Procedure

We expect the position will be advertised early December. Prior to that informal enquiries may be made as noted below.

Informal Enquiries

Informal enquiries ONLY may be addressed to Anshul Awasthi, email: Anshul.Awasthi@mtu.ie