



## **Electronic/Mechanical Engineer – R&D Projects.**

### **Company Background:**

TE Laboratories are a science based SME based in Tullow Co Carlow. The company operates a number of divisions which includes an active R&D division.

R&D activities include participation in European and National collaborative funded projects. Presently the company is participating in 8FP7's, coordinating 1 FP7 project and 2 H2020. The company is actively looking to increase project participation under the Horizons 2020 program.

Outputs from these projects and other innovation processes within the company produce initial prototypes that then need to be taken down a commercialisation path.

### **Role:**

A cross-discipline research and development engineer is required capable of evolving an idea from conceptual stages to pre-commercial prototypes ready for the market delivery process. The successful candidate should be capable of working with research groups both within the company and also in other academic and industrial consortium partners. These teams will be multi-disciplinary with a technical emphasis on low cost environmental sensors and chemical test kit technologies. There will be particular emphasis on sensor development, fluidic components (pump, valves, interconnects), electronic circuit fabrication and testing, and control software development and validation. Experience in working well independently, within a team, managing team projects, and meeting strict deadlines is an advantage.

Reporting to the Technical Director, the successful candidate will work closely on a day-to-day basis with other researchers to deliver a truly multidisciplinary group effort.

### **Duties and Responsibilities:**

Reporting to the Technical Director the successful candidate will:

- Conduct a specified programme of research on the mechanical and electronic engineering tasks required to implement sensor-based analytical methods in an autonomous instrument
- Deliver research outputs and provide input into reports as required according to project management schedules.
- Participate in field deployments of prototype devices.
- Attend and present results at project technical progress meetings.
- Liaise with both internal and external stakeholders including industry and academic partners/collaborators.
- Maintain an up-to-date profile on the group website.
- Engage in the dissemination of the results of the research at international conferences and publish research outputs in high impact international journals.
- Assist in identifying, developing and applying for future research and funding initiatives.
- Engage in appropriate training and development opportunities as required by T.E. Laboratories.

- Carry out administrative work associated with the programme of research as & when necessary.

**Experience and Qualifications:**

Candidates must have a primary degree in which electronic, mechanical or mechatronic engineering was a significant component. Experience in circuit design and fabrication, microprocessor programming, systems design and integration, systems trouble-shooting/validation will be important. Experience in Sensor system design and fabrication would be an advantage, as would experience in environmental analysis, particularly in-situ monitoring.

**Candidates will be assessed on the following competencies:**

- **Discipline knowledge and Research skills** – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.
- **Understanding the Research Environment**- Demonstrates the ability to progress technology down the research pipeline towards a commercial product.
- **Communicating Research** – Demonstrates the ability to communicate their research with their peers and the wider research community (for example presenting at conferences and publishing research in relevant journals).
- **Managing & Leadership skills** - Demonstrates the potential to manage a research projects.

**Salary:** Competitive

Appointment will be commensurate with qualifications and experience.

**Closing Date:**

Applications can be emailed to Human Resource's Manager, to include cover letter and a full CV to [hr@tellab.ie](mailto:hr@tellab.ie)