



## **Biomedical Diagnostics Institute**

[www.bdi.ie](http://www.bdi.ie)

Research Fellow Level 2, in Biomedical Diagnostics

### **Research Career Framework**

As part of this role the researcher will be required to participate in the DCU Research Career Framework <http://www.dcu.ie/hr/ResearchersFramework/index.shtml>. This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path.

### **Background and role:**

A team at the Biomedical Diagnostics Institute in Dublin City University is leading the development of novel breath diagnostic sensor technologies. They have recently been awarded funding under the Enterprise Ireland Commercialisation Fund Program to bring functional prototypes into three clinical studies. The award will require the production of multiple system prototypes and sensors to accompany the system, before their installation in three clinical sites in Dublin and London.

As part of this activity we wish to recruit an experienced Research Fellow to assist in the delivery of pre-commercial prototype instruments with particular focus on sensor material fabrication and optimisation (conducting polymer nanomaterials).

### **Duties and responsibilities:**

Duties and responsibilities of the position include but are not restricted to the following:

- Ensuring that the systems meet defined performance requirements, will work with clinical partners to install the instruments for operation in three clinical evaluations and will monitor their use and performance during the study.
- Preparation of documentation for approval processes, analysis of analytical and clinical data and supporting parallel commercialisation objectives.

### **Qualifications and experience**

The successful individual must have a PhD in a relevant discipline across the domains of physics, analytical chemistry, biomedical engineering or other relevant area. Applicants should have a minimum of 4 years relevant postdoctoral research experience or equivalent at Level 1 of the Research Career Framework. In addition, the candidate should have:

- Broad knowledge of biomedical diagnostics, sensors and analytical systems integration requirements involving electronics, software, electromechanical instrumentation, analytical measurement, verification and validation processes (essential).
- Experience with diagnostic device regulatory approval processes would also be beneficial.
- Capability to take a team leadership role in this industrially focussed development project, and so should be highly productive and capable of adhering to a define project plan and tight deadlines.
- Demonstrated experience of being pro-active and capable of using their initiative.
- Excellent communication skills to work with a very cross-disciplinary team of scientists, clinicians, medical staff, commercialisation specialists and management.

The individual should also be prepared to travel for short periods to work with partners in Ireland and the UK.

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

**Discipline knowledge and Research skills** – Demonstrates the ability to design and implement part of a programme of research (for example by using critical thinking and the application of relevant research methodologies)

**Understanding the Research Environment** – Demonstrates a thorough understanding of the research environment both nationally and internationally and the ability to contribute substantially to grant applications

**Communicating Research** – Demonstrates the ability to communicate their research effectively to the research community and wider society (for example by publishing their research in high quality peer reviewed journals) and the ability to teach and tutor students

**Managing & Leadership skills** - Successfully manages research projects including the management and supervision of postgraduates and/or junior research staff

**Closing date:** Monday 5<sup>th</sup> January, 2015

**Duration:** 9 months in the first instance and extended to 15 months on satisfactory completion of project stage gates, commencing February 2015.

**Salary scale:** €51,716 to €54,820

Appointment will be commensurate with qualifications and experience

**Informal enquiries to:** Denise Carthy, Integration Manager at the BDI: [denise.carthy@dcu.ie](mailto:denise.carthy@dcu.ie)

**Application Procedure:** A CV & cover letter, should be sent to Denise Carthy, Integration Manager at the BDI: [denise.carthy@dcu.ie](mailto:denise.carthy@dcu.ie)

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