

## Job Specification

**Job Title:** Postdoctoral Research Fellow

**Project Title:** Fibre Optic Nanohole Technologies (FONT)

**Project Background:** The Pharmaceutical and Molecular Biotechnology Research Centre (PMBRC) at WIT has recently been awarded funding to develop a novel biosensor technology based on the optical transmission of light through nanometre sized perforations formed in a thin film of gold on fused glass fibre template. This is initially a 10 month position that will focus on the development of the surface biochemistry required to demonstrate the prototype instrument. The successful applicant will report to the Project Manager and Lead Project Scientist in charge of the biosensor development. The period of employment may be extended to a maximum of 24 months.

**Department:** Department of Chemical & Life Sciences  
Department of Engineering Technology

**Grade:** 1

**Salary:** €37,750

**Commencement Date and Duration:** 01 September 2013 to 31<sup>th</sup> June 2014

**Minimum Qualifications/Requirements:**

- PhD in Biochemistry, Chemistry or equivalent.
- Experience in the development of functionalization chemistry and/or antibody / antigen coated surfaces for sensor applications.
- Experience in surface plasmon resonance (SPR) sensor technologies.

**Desirable Qualifications/Requirements:**

- Experience in Scanning Probe Microscopy test methods
- Spectroscopy; microscopy; immunology and functionalization chemistry
- Synthesising nanomaterials for biosensing purposes
- Good written and verbal Communication Skills

**How to Apply:**

Applicants must submit a loose leaf CV and covering letter, along with the names and contact details of two referees to:

Recruitment Section,  
Human Resources,  
Waterford Institute of Technology,  
Cork Road,  
Waterford  
Ireland  
Tel: +353 (0) 51 845519

Or e-mail to [recruitment@wit.ie](mailto:recruitment@wit.ie)

Further information on the PMBRC is available at <http://pmbrc.org/>

Closing date for applications is Friday, July 10<sup>th</sup> at 17:00hrs.

**The Institute may decide to interview only those applicants who appear from the information available, to be the most suitable, in terms of experience, qualifications and other requirements of the post.**