

NATIONAL CENTRE FOR SENSOR RESEARCH (NCSR)

Research Assistant

(6 Month Contract)

The National Biophotonics & Imaging Platform Ireland (NBPI) provides an integrated national access and training infrastructure in research, education, technology development and industry collaboration for Ireland's investment in Biophotonics and Medical Imaging. Under the HEA Programme for Research in Third Level Institutions (PRTL I IV), the Platform was recently awarded €30 million in research funding.

The NBPI Group is located within the National Centre for Sensor Research (NCSR; www.ncsr.ie) at Dublin City University.

Duties and Responsibilities:

Reporting to the Prof. Tia Keyes and Dr Tibebe Lemma the Research Assistant will contribute to on-going projects focussed on collecting Raman and FT-IR spectra from tissue samples. He/She will use chemometrics to identify patterns in the vibrational spectra to elucidate difference between normal and diseased patients. The successful candidate will join a multidisciplinary team working with academic scientists and industrial partners. Duties and responsibilities attaching to the post include but are not restricted to the following:

- Collect and analyse Raman and FT-IR spectra and maps from tissue
- Run principal component analysis (PCA) on the collected data
- Identify relationships between the analytical response and disease state
- Monitor and ensure compliance with all health and safety rules and regulations

Person specification:

Applicants must have a BSc in chemistry or physics and at least 2 years experience in Raman and/or FTIR microscopy and image analysis. This experience should include knowledge of chemometrics, in particular principal component analysis and hierarchical cluster analysis. As the individual will work within a multidisciplinary research team, excellent communication skills, both oral and in written English are essential.

Informal enquiries to:

Dr. Tibebe Lemma, NBIP, DCU.

E-mail: 353 (0)1 7006310

E-mail: tibebe.lemma@dcu.ie

Salary scale: €21,850 - €32,930

Subject to qualifications and experience

Closing date: 15th August 2011

Application forms are available from:

Human Resources Department, Dublin City University, Dublin 9.

Tel: +353 1 700 5149; Fax: +353 1 700 5500

Email: hr.applications@dcu.ie

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