Chemical Probes for Clinical Optical Imaging

4-year PhD (beginning in September 2019)

The EPSRC IRC Proteus (Proteus) - Multiplexed 'Touch and Tell' Optical Molecular Sensing and Imaging - Lifetime and Beyond” is an Interdisciplinary Research Collaboration between the Universities of Edinburgh, Bath, Heriot Watt, Durham and Dundee.

This highly interdisciplinary collaboration is focussing on sensing and imaging with researchers from the fields of optical fibres, detectors, fluorescent probes, biological models, signal processing and machine learning through to clinical care has led to the testing in patients of a number of world-leading bedside-based technology platforms to diagnose disease inside the lung.

This Fibre-based Optical Sensing and Imaging Platform can provide ground-breaking dynamic sensing of pathological events in the distal lung of patients at the molecular level, which leads to significant healthcare improvement through rapid diagnosis, patient stratification and personalised drug therapy.

The studentship is fully funded for 48 months and covers tuition fees and an annual stipend (starting at £15,009 per annum) for a candidate satisfying EPSRC criteria: http://www.epsrc.ac.uk/skills/students/help/Pages/eligibility.aspx

As part of the University of Edinburgh’s commitment to the newly funded phase of this PROTEUS project we are looking to recruit a high-calibre postgraduate students to join this world-class team. In particular we are seeking chemistry/chemical technology students to explore the development of lifetime fluorophores and targeted life-time probes for a range of disease-specific molecular signatures. An interest in chemical biology, fluorescence, peptide chemistry would be an advantage and experience in multidisciplinary research would also be beneficial. The students will be supervised by Prof. Mark Bradley and Dr Alicia Megia-Fernandez.

Application Process

To apply please submit a cover letter stating clearly why you are interested in applying for the studentships, a full up-to-date C.V. (including vacation address) and names and addresses of two
academic referees to the email or postal address given below by 24th May 2019. Applicants must satisfy RCUK residency rules for the full studentship, for more details see:

http://www.epsrc.ac.uk/skills/students/help/Pages/eligibility.aspx

The School of Chemistry holds a Silver Athena SWAN award in recognition of our commitment to advance gender equality in higher education. The University is a member of the Race Equality Charter and is a Stonewall Scotland Diversity Champion, actively promoting LGBT equality. The University has a range of initiatives to support a family friendly working environment. See our University Initiatives website for further information. University Initiatives website: https://www.ed.ac.uk/equality-diversity/help-advice/family-friendly.

For applications and further details, please contact:

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