

## Synthetic Chemistry PhD Studentship in the EPSRC IRC in Multiplexed “Touch and Tell” Optical Molecular Sensing and Imaging

The Engineering and Physical Sciences Research Council (EPSRC) has sponsored an £11.5M Interdisciplinary Research Collaboration (IRC) between the Universities of Edinburgh (UoE), Bath (UoB) and Heriot Watt (HWU). For more information see <https://proteus.ac.uk>.

The EPSRC Interdisciplinary Research Collaboration in Multiplexed 'Touch and Tell' Optical Molecular Sensing and Imaging' is a power-house of 'fibre-based' sensing and imaging expertise and has a PhD studentship available in the area of **synthetic chemistry and optical medical imaging**.

We are looking to recruit a high-calibre postgraduate student to join this dynamic multi-disciplinary, world-class team delivering major benefits for patient care.

The IRC is now offering a 3-year PhD Studentship (approximately £14.5 k per annum) in the area of **Chemical Probes for Fluorescence imaging**. The project will be based in the School of Chemistry (supervisor Professor Mark Bradley, <http://www.combichem.co.uk>) and the candidate will require skills in chemical synthesis and will work on the development of fluorescent imaging probes (synthesis of small molecules, peptides, fluorophores etc.). The applicant must have a keen interest in applying these in a biomedical setting. Training will be provided to enable probes to be developed/synthesised to clinical grade in our in-house GMP facilities.

For recent publications see: A Labelled-Ubiquicidin Antimicrobial Peptide for Immediate *In Situ* Optical Detection of Live Bacteria in Human Alveolar Lung Tissue, *Chem. Sci.* 2015, 6, 6971–6979 and Optical molecular imaging of lysyl oxidase activity – detection of active fibrogenesis in human lung tissue, *Chem. Sci.* 2015, 6, 4946–4953 for further details.

### Application Process

For an informal application, please submit a cover letter stating clearly why you are interested in applying for an IRC studentship, a full up-to-date C.V. (including vacation address) and names and addresses of two academic referees to the e-mail address given below by **19<sup>th</sup> December 2017**.  
Dr. Annamaria Lilienkampf ([annamaria.lilienkampf@ed.ac.uk](mailto:annamaria.lilienkampf@ed.ac.uk))

Formal applications are made through the University's EUCLID system.

<http://www.chem.ed.ac.uk/studying/postgraduate-research/applications-and-entry-requirements>

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>

PLEASE NOTE: there are eligibility criteria for some of these studentships. Some studentships are open to all nationalities. For other studentships, only EU Nationals are eligible. These restricted studentships have additional restrictions for non-UK nationals, which relates to the period and purpose of residency in the UK.

**Deadline for applications 19<sup>th</sup> December 2017.**