

Research Associate (MEMPHIS project), - Ref:1311744

UCL Department / Division	Chemical Engineering
Grade	7
Hours	Full Time
Salary (inclusive of London allowance)	£32,375 - £39,132 per annum

Duties and Responsibilities

Applications are invited for a research associate position in the Department of Chemical Engineering at UCL. The main role will be to carry out experimental investigations of multiphase flows. This post will be funded by a £5M EPSRC Programme Grant that will harness the synergy between world-leading scientists from four prestigious institutions: Imperial College, Birmingham, Nottingham and UCL, to create the next generation modelling tools for complex multiphase flows. This will require a programme of focussed, multi-scale experiments on multiphase flows to validate and update numerical codes.

The experimental work will involve application of optical diagnostic methods on small and large scale geometries, with an additional aim of developing routes to create novel multiphase structures which can be exploited by our industrial partners. It will be expected that the post holder will interact closely with the numerical component of the Programme, carried out at all the participating universities, in order to validate, and update the numerical tools, and to provide input into the design of experiments.

The post is funded for three years in the first instance and is available immediately.

Key Requirements

The successful candidate should hold a PhD in Chemical or Mechanical Engineering, Physics or a closely related discipline, or have submitted their thesis prior to taking up the post.

The appointee will have a strong background in fluid mechanics and multiphase flows, experimental measurements and analysis of data. Knowledge and experience of optical flow diagnostics (PIV) is required, as is the ability to program in MATLAB and other programming languages.

Further Details

Further details about the vacancy are available below. To apply for the vacancy, please click on the 'Apply Now' button below.

In addition, please attach to your on-line application, a current CV including research experience and a scientific publications list with contact details of two referees.

If you have any queries regarding the application process, please contact Miss Agata Blaszczyk, email: a.blaszczyk@ucl.ac.uk.

For informal enquiries, please contact Dr P Angeli, email: p.angeli@ucl.ac.uk, tel: 020 7679 3832.

Closing Date 9 Mar 2013