
School of Engineering

Research Assistant/Associate (Microfluidics for Osteoarthritis Tissue Models)

Grade: F Vacancy Ref: D85542R

Research the development of microfluidic lab-on-a-chip systems for screening new treatments for osteoarthritis. The post will focus on the development of new microfluidic systems to scale-up assays which will be developed by osteoarthritis and microbiological researchers from Alcyomics, Newcastle, York, and Leeds Universities.

Main Duties and Responsibilities

1. Performing original laboratory research and lab scale manufacture using appropriate techniques, approaches and equipment.
2. Critically appraising and interpreting research findings to understand their significance in both the wider field and as the basis for further investigations.
3. Working collaboratively and as an active team member in the project, both within the University and with the industrial and academic collaborators.
4. Contributing to the writing up of research and its dissemination.
5. Presentation of research findings at local, national and international meetings.
6. Providing guidance to other research staff and students, from both inside and outside the University.

Research Role Profile

As part of our commitment to career development for research staff, the University has developed 3 levels of research role profiles. These profiles set out firstly the generic competences and responsibilities expected of role holders at each level and secondly the general qualifications and experiences needed for entry at a particular level. It is unlikely that any single member of staff will be applying all these competences at any one time but he or she would be expected to display most of them over a period of time.

Please follow this link to our [Research Role Profiles](#)

Person Specification

Knowledge (inc. qualifications)

Essential

- Excellent engineering or science first degree

Desirable

- PhD awarded in microfluidics, additive manufacture, polymer processing or a related subject, OR significant recent industrial experience in additive manufacture and polymer processing (required for appointment at Associate level)
- Knowledge of laser systems would be an advantage.

Skills (professional, technical, managerial, practical)

Essential

- Capacity for original thought
- Well organised with good attention to detail
- Excellent communication skills
- Ability to work independently and as part of a team
- Ability to share and teach skills

Desirable

- Good information technology and computing skills

Experience and Achievements (paid or unpaid)

Desirable

- Knowledge and experience of one or more of (i) microfluidic systems, including actuation and control (ii) additive manufacture, and in particular stereolithography, (iii) polymer processing and characterisation, and (iv) laser systems.
- Presentation of work at local, national or international meetings.
- Publications in quality peer-reviewed journals

Other

Essential

- Willingness to undertake work outside normal working hours, when appropriate
- Willingness to visit project partners

For additional details about this vacancy and essential information on how to apply, visit our Job Vacancies web page at <http://www.ncl.ac.uk/vacancies/>