



Job Title:	Research Fellow
Grade:	8
Salary:	£48,350 to £51,283 per annum pro rata due to funding restrictions
Department:	School of Chemistry
Hours/Contract:	Part time (0.3 FTE, 11.25 hours per week), fixed term for 3 months
Job Family:	Teaching and Research
Reference:	10337

Role Purpose

To be accountable for the design, delivery and quality of a research project entitled “*Magnetic Plate and nano particle assay validation*”. A significant degree of autonomy is required and there is an expectation to work independently on own task and goals, specifically to deliver the four work packages outline below. The postholder will be experienced in research, which will be reflected by a growing reputation in their field of research.

Main Duties and Responsibilities

- To design and deliver the research programme to meet the key milestones outlined below:
 - **Work Package 1: MIPs Nanoparticle Synthesis and testing**
This role will synthesise magnetic MIPs using each of the two methods against human blood type B antigen and against biotin as a blank, non-imprinted control. They will then test the binding efficiency of the MIPs against their target antigen using surface plasmon resonance (LSPR).
 - **Work Package 2: Protocol Testing**
This role will test the performance of the MIPs and blank polymer against sample of human type B, purchased from commercial sources by measuring optical absorbance in magnetic microplate and refine the protocol as needed.
 - **Work Package 3: Assay Demonstration**
This role will travel to the Grifols SA premises in Spain and perform a live demonstration of the assay in the labs. After the demonstration has been completed, any unused MIPs or magnetic plates will be returned to University of Leicester.
 - **Work Package 4: Report Writing**
This role will write a short report (‘Service Report’) presenting the results of WP1-3 and make this available to the Grifols SA in an appropriate electronic format.
- To contribute to research proposals and to continue or expand the research programme to secure and explore potential new funding streams.
- To oversee data governance, quality and analytical outputs from the research programme as appropriate.
- To disseminate research/results and/or promotion of research group/expertise at national and international conferences.



Internal and External Relationships

Establish/maintain collaborations with other researchers at the University of Leicester, nationally and internationally.

Participate in School/departmental and university-wide seminar and public engagement activities to stimulate dissemination of information and collaboration.

Disseminate results at national and international conferences.

Planning and Organising

Plan and organise own research programme in designated area.

Plan and co-ordinate research with collaborators.

Plan and organise dissemination of information to both highly specialised academics and the lay public.

Plan, organise and submit grant applications for further and supplementary funding.

Qualifications, Knowledge and Experience

Essential

- PhD or significant equivalent/demonstrable experience in an appropriate discipline *
- Track record of publication of high-quality journal papers rated at 4* (or equivalent). *
- Knowledge and practical experience of molecularly imprinted polymers, general polymerization chemistry, nanotechnology and assays. *
- Extensive laboratory experience in wet-chemistry and polymerization techniques. *
- Capability to develop novel techniques and products.

Desirable

- Experience of project management of a research programme where relevant *

Skills, Abilities and Competencies

Essential

- Ability to demonstrate behaviours that are in accordance with the University values of inclusive, inspiring and impactful.
- Proven analytical/technical problem-solving capability*
- Excellent communication skills – written and verbal*
- Ability to assess resource requirements, secure and organise resources effectively

****Criteria to be used in shortlisting candidates for interview***





Reason for Fixed Term Contract

The reason for the fixed term contract is stated in section 1.9 in the summary of contractual terms in your contract of employment.

Criminal Declaration

If you become an employee, you must inform your manager immediately, in writing, if you are the subject of any current or future police investigations/legal proceedings, which could result in a criminal offence, conviction, caution, bind-over or charges, or warnings.

Supporting University Activities

As a University of Leicester citizen, you are expected to support key university activities such as clearing, graduation ceremonies, student registration and recruitment open days. We expect all staff as citizens to work flexibly across the University if required.

University Values

Inclusive - We are diverse in our makeup and united in ambition. Our diversity is our strength and makes our community stronger.

Inspiring - We are passionate about inspiring individuals to succeed and realise their ambitions. We challenge our community to think differently, to get involved, and to constantly embrace new ideas.

Impactful - As Citizens of Change we will generate new ideas which deliver impact and empower our community

Equity and Diversity

We believe that equity, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equity support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equity, diversity and inclusion.

