



<b>Job title</b>	Research Associate/Fellow: Polymer chemistry and clinical translation	<b>Job family and level</b>	Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)
<b>School/ Department</b>	School of Pharmacy	<b>Location</b>	University Park Campus

## Purpose of role

The key research areas of this role will be:

- Polymer synthesis and characterisation;
- Coating of medical-grade silicone rubber tubes with pro- and anti-fibrotic polymers for use in mouse models by other team members;
- Production of synthesis antibody decorated gold nanoparticles for detailed wireless inflammation monitoring (in conjunction with fellow researcher(s) working on bioelectronics).
- Working with clinical partners to gain ethical approval for the healthy volunteer trial of the fibrosis quantification device
- Measurement of FBR encapsulation of glucose sensors in healthy volunteers with other team members;

	<b>Main responsibilities</b> (Primary accountabilities and responsibilities expected to fulfil the role)	<b>% time per year</b>
1	<b>Project</b> <ul style="list-style-type: none"> <li>▪ Polymer synthesis and characterization</li> <li>▪ Coating of medical-grade silicone rubber tubes with pro- and anti-fibrotic polymers</li> <li>▪ Production of synthesis antibody decorated gold nanoparticles</li> <li>▪ Working with clinical partners to gain ethical trial approval</li> <li>▪ Measurement of FBR encapsulation of glucose sensors in healthy volunteers</li> </ul>	70%
2	<b>Training</b> <ul style="list-style-type: none"> <li>▪ Training and advising research assistants and postgraduate students in the use of equipment.</li> <li>▪ Transferring of instrumental skills and ensure correct and robust procedures are carried out in obtaining data for PhD and other research projects.</li> <li>▪ Providing a range of technical skills and analytical advice to the above projects and training and advice to research workers in the areas of Good Laboratory Practice and in Health and Safety.</li> </ul>	15%
3	<b>Outputs</b> <ul style="list-style-type: none"> <li>▪ Contribute to internal meetings and work in conjunction with the research team to achieve objectives.</li> </ul>	15%

	<ul style="list-style-type: none"><li>▪ Prepare research results for publication, read relevant literature and offer new insights to the research area.</li><li>▪ Contribute to dissemination at scientific meetings, resulting in successful outputs.</li></ul>	
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## Person specification

	Essential	Desirable
<b>Skills</b>	<ul style="list-style-type: none"> <li>▪ Polymer synthesis and characterisation.</li> <li>▪ Ability to work effectively in a team.</li> <li>▪ Good experimental practice and resilience.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Gold nanoparticle formation and antibody functionalisation.</li> <li>▪ Track record of published work</li> </ul>
<b>Knowledge and experience</b>	<ul style="list-style-type: none"> <li>▪ An interest in clinical translation.</li> <li>▪ Expertise in scientific writing.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Polymer biomaterials knowledge.</li> </ul>
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ PhD (or close to completion) in relevant subject area.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Chemistry degree.</li> </ul>



## Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

## Key relationships with others



