



<b>Job title</b>	Research Fellow (Title will be 'Research Associate' where an appointment is made before PhD is completed)	<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 Medicine, Translational Medical Sciences	<b>Location</b>	Biodiscovery Institute, University Park Campus

## Purpose of role

The purpose of this role will be to have specific responsibility for research, for developing research objectives and proposals for a Cancer Research UK (CRUK) funded research project to evaluate if lymphatic cargo transported between breast tumours and draining lymph nodes can be used to recognize molecular and cellular adaptations instigated in early stages of cancer and predict risk of disease progression.

You will be expected to plan and conduct work using approaches or methodologies and techniques appropriate to the type of research and will be responsible for writing up your work for publication. You will join an established team, led by Professor Jacqui Shields within the Centre for Cancer Sciences

You will have the opportunity to use your initiative and creativity to identify areas for research, develop research methods and extend your research portfolio.

The School of Medicine recognise the importance of continuous professional development and therefore the importance of providing opportunities, structured support and encouragement to engage in professional development each year.

To find out more about the School of Medicine, its values, vision, teaching and research, please see our [further information leaflet](#).

	<b>Main responsibilities</b> (Primary accountabilities and responsibilities expected to fulfil the role)	<b>% time per year</b>
1	<p><b>Research Responsibilities:</b></p> <ul style="list-style-type: none"> <li>▪ To manage, plan and conduct own research activity using recognised approaches, methodologies, and techniques within one or more of the following programme objectives:               <ul style="list-style-type: none"> <li>▪ Identify drained biochemical factors within lymph draining tumours</li> <li>▪ Determine their role on lymph node organisation, immune potential</li> <li>▪ Identify disease relevant predictive potential of candidates</li> </ul> </li> </ul>	65%

	<ul style="list-style-type: none"> <li>▪ Keep abreast of relevant current literature to apply the most appropriate contemporary methods to address the scientific aims within the programme</li> <li>▪ To resolve problems, in meeting research objectives and deadlines in collaboration with others.</li> <li>▪ To identify opportunities and assist in writing bids for research grant applications. Prepare proposals and applications to both external and/or internal bodies for funding, contractual or accreditation purposes.</li> </ul>	
2	<p><b>Support members of the group and contribute to lab and wider Institute activities:</b></p> <ul style="list-style-type: none"> <li>▪ To assist in the training of students, and technical staff as appropriate, and assist with maintaining essential research capabilities and laboratory facilities when necessary.</li> <li>▪ To contribute to the safe and well-organised functioning of the laboratory.</li> </ul>	15%
3	<p><b>Engagement, Communication and Continuation Responsibilities:</b></p> <ul style="list-style-type: none"> <li>▪ To collaborate with academic colleagues on areas of shared interest for example, course development, collaborative or joint research projects.</li> <li>▪ To write up research work for publication and/or contribute to the dissemination at national/international conferences, resulting in successful research outputs.</li> <li>▪ To continue developing professional research skills, keeping knowledge up to date through attendance at seminars and conferences, and initiate internal/external collaborations where appropriate.</li> </ul>	10%
4	<p><b>Teach, supervise, examine and personal tutoring:</b></p> <ul style="list-style-type: none"> <li>▪ You are expected to make a contribution to teaching that is in balance with wider contributions to research and other activities.</li> </ul>	10%
5	<p><b>Other:</b></p> <ul style="list-style-type: none"> <li>▪ Any other duties appropriate to the grade and level of the role</li> </ul>	N/A

## Person specification

	Essential	Desirable
<b>Skills</b>	<ul style="list-style-type: none"> <li>▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information.</li> <li>▪ Ability to creatively apply relevant research approaches, models, techniques and methods.</li> <li>▪ Ability to build relationships and collaborate with others, both internally and externally</li> </ul>	

	<ul style="list-style-type: none"> <li>▪ High analytical ability to analyse and illuminate data, interpret reports, evaluate and criticise texts and bring new insights.</li> <li>▪ Ability to assess and organise resource requirements and deploy effectively.</li> </ul>	
<b>Knowledge and experience</b>	<ul style="list-style-type: none"> <li>▪ Practical experience in techniques required for the role including tissue culture, immune cell isolation and functional assays, and multi-parameter flow cytometry.</li> <li>▪ Demonstrated experience with mass spectrometry and associated data analysis.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Strong track record in cancer immunology, lymphatics or protein analytical methods.</li> <li>▪ Experience of developing new approaches, models, techniques or methods in research area.</li> <li>▪ Demonstrated experience of in preclinical cancer models.</li> <li>▪ Experience of single cell sequencing and equivalent large data set analysis using statistical packages (e.g R) for data analysis.</li> <li>▪ Experience of fluorescence-based multiplexed imaging techniques and associated image analysis.</li> </ul>
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ PhD or equivalent in cancer biology or related subject OR near to completion of a PhD</li> </ul>	<ul style="list-style-type: none"> <li>▪ Hold a Home Office personal license (or have passed personal licensee modules 1-4)</li> </ul>
<b>Other</b>	<ul style="list-style-type: none"> <li>▪ Willingness to adopt the <a href="#">vision and values</a> of the School of Medicine.</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

