



<b>Job title</b>	Technical Specialist – <i>In Vivo</i> Imaging	<b>Job family and level</b>	Technical Services Level 4
<b>School/ Department</b>	School of Medicine, Translational Medical Sciences	<b>Location</b>	University of Nottingham, Queens Medical Centre

## Purpose of role

The purpose of this role is to provide specialist expertise in pre-clinical *in vivo* imaging to the School of Medicine. Using specialist knowledge and skills for the development of *in vivo* imaging, the role holder will provide support and guidance for research projects related to studies across the full spectrum of pre-clinical drug discovery. The role holder will be responsible for the provision of specialist technical support for molecular imaging in the pre-clinical setting, specialist knowledge of current regulatory guidelines, ensuring adherence to regulatory guidelines and H&S standards, horizon scanning for new developments and novel applications of existing technologies, advocating for the 3Rs (reduction, replacement, refinement) and using specialist knowledge to support teaching activities at undergraduate and postgraduate levels.

The duties and percentage time allocation provides an indication and framework for the role and should not be regarded as a definitive list or allocation. Other reasonable duties commensurate with the grade, spirit and purpose of the post may be requested.

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.

	<b>Main responsibilities</b> (Primary accountabilities and responsibilities expected to fulfil the role)	<b>% time per year</b>
1	<p><b>Specialist technical knowledge and advice</b></p> <ul style="list-style-type: none"> <li>▪ Provide guidance, training and support to staff and students, as required, as a recognised source of pre-clinical imaging expertise.</li> <li>▪ Responsible for maintenance of specialist pre-clinical imaging equipment.</li> <li>▪ Contribute to the interpretation of the results and the development of research and teaching and other areas of activity.</li> <li>▪ Utilise specialist pre-clinical <i>in vivo</i> imaging knowledge and expertise to interpret the needs of the customer, supporting the drafting of grant applications and papers.</li> <li>▪ Provide relevant input into teaching at undergraduate and postgraduate levels (e.g. BMedSci, BSci/MSci in Cancer Sciences,</li> </ul>	65%

	<p>Masters in Oncology, PGR Centres for Doctoral training such as the recently awarded MRC DTP in Advanced Interdisciplinary Models).</p> <p><b>Specialist technical management and provision</b></p> <ul style="list-style-type: none"> <li>▪ Responsible for the technical organization and/or operation of the molecular imaging platform.</li> <li>▪ Work with senior managers, and research colleagues to provide technical support for pre-clinical studies involving imaging.</li> <li>▪ Provide specialist knowledge of current regulatory guidelines for carrying out pre-clinical studies <i>in vivo</i>.</li> <li>▪ Identify and consult on requirements for high value/large equipment purchases, using specialist knowledge for improvements that may impact on experimental processes, capacity, efficiency or refinement/reduction.</li> </ul>	
2	<p><b>Health and Safety, Regulatory, Ethics and Governance</b></p> <ul style="list-style-type: none"> <li>▪ Act as Deputy for the PPL Holder in the day-to day management of the PPL and in the PPL holder's absence.</li> <li>▪ Ensure compliance with HO regulations in relation to pre-clinical studies, including recording procedures in line with Home Office guidelines and preparing Annual Returns.</li> <li>▪ Follow all School of Medicine local safety arrangements in the performance of all duties and follow local escalation procedures for any health and safety considerations.</li> <li>▪ Assess the risks of the planned activity and perform the tasks having acted to enforce data security.</li> <li>▪ Ensure that the area complies with work related legal, health and safety and ethical standards.</li> <li>▪ Write and review associated risk assessments, data management plans, standard operating procedures and other relevant paperwork in collaboration with senior colleagues.</li> <li>▪ Ensure that relevant H&amp;S standards are met within the Unit and that records are maintained for reporting purposes.</li> <li>▪ Lead and oversee 3Rs (Reduction, Replacement and Refinement) developments.</li> <li>▪ Actively pursue and record relevant professional development opportunities as required as a PIL holder.</li> </ul>	35%
3	<p><b>Other:</b></p> <ul style="list-style-type: none"> <li>▪ Any duties as required in accordance with the nature and grade of the post.</li> </ul>	

## Person specification

	Essential	Desirable
<b>Skills</b>	<ul style="list-style-type: none"> <li>▪ Expertise in pre-clinical <i>in vivo</i> imaging and the use of relevant equipment</li> </ul>	<ul style="list-style-type: none"> <li>▪ Project management experience</li> <li>▪ Proven ability to use management and financial systems</li> </ul>

	<ul style="list-style-type: none"> <li>▪ Experience in advanced pre-clinical murine xenograft cancer modelling</li> <li>▪ Working knowledge of anaesthesia, including for surgical procedures</li> <li>▪ Proven high level of planning and organisational skills and resource management</li> <li>▪ Excellent IT skills e.g. Microsoft Office</li> <li>▪ Excellent analytical, negotiation and problem-solving capability</li> <li>▪ Ability to write policies, procedures and SOPs and implement these</li> <li>▪ A commitment to delivering an excellent service to stakeholder/ users</li> <li>▪ Proven skills in the effective management of people</li> <li>▪ High levels of resilience</li> <li>▪ Ability to deal with a change and a flexible team player</li> </ul>	
<p><b>Knowledge and experience</b></p>	<ul style="list-style-type: none"> <li>▪ A sound knowledge of animal welfare, quality standards and ethical concerns including Home Office regulations in relation to animal work and the 3Rs</li> <li>▪ Previous relevant rodent handling experience, with the ability to undertake a range of technical support activities e.g. dosing and sampling by a variety of routes, tumour measuring, with minimal supervision</li> <li>▪ Experience of working with containment systems, including IVCs</li> <li>▪ Well-developed understanding of Health &amp; Safety regulations and procedures and the implications of non-compliance on other staff and patients/ healthy volunteers</li> <li>▪ Excellent technical problem-solving skills</li> <li>▪ Ability to communicate clearly to non-specialist and senior level audiences</li> <li>▪ Effective written and communication skills</li> </ul>	<ul style="list-style-type: none"> <li>▪ Previous research study design following optimal parameters</li> </ul>

	<ul style="list-style-type: none"> <li>▪ Technical management within a clinical teaching &amp; research environment</li> <li>▪ Line management of staff or supervision of postgraduate students in a clinical teaching &amp; research environment</li> </ul>	
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ PIL holder-modules A, B and C vLevel 3 IAT, or equivalent vocational qualifications (NVQ, City &amp; Guild), or BSc in an appropriate subject</li> </ul>	<ul style="list-style-type: none"> <li>▪ PPL Holder or willingness to undertake appropriate modular training</li> <li>▪ Named Animal Welfare Care Officer (NACWO) qualified</li> </ul>
<b>Statutory, legal or special requirements</b>	<ul style="list-style-type: none"> <li>▪ This position will be subject to an enhanced DBS check</li> <li>▪ Applicant must undergo satisfactory enhanced security screening and health screening prior to offer of employment</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> <li>▪ Adopting and delivering to the School of Medicine's Professional Services Service Excellence Standards</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 always equitable and fair and works with integrity. Proactively looks for ways to develop the team and is comfortable providing clarity by explaining the rationale behind decisions.
- Taking ownership** Is highly self-aware, looking for ways to improve, both taking on board and offering constructive feedback. Inspires others to take accountability for their own areas.
- Forward thinking** Driven to question the status quo and explore new ideas, supporting the team to "lead the way" in terms of know-how and learning.
- Professional pride** Sets the bar high with quality systems and control measures in place. Demands high standards of others identifying and addressing any gaps to enhance the overall performance.
- Always inclusive** Ensures accessibility to the wider community, actively encouraging inclusion and seeking to involve others. Ensures others always consider the wider context when sharing information making full use of networks and connections.

## Key relationships with others



