



Job title	Research Technician	Job family and level	Technical Services Level 3
School/ Department	School of Life Sciences	Location	Queens Medical centre

Purpose of role

To provide specialist technical support to Prof. Rita Tewari for research projects and to plan and oversee the day-to-day running of the research laboratory, allocating resources and planning and providing technical supervision/training in the use of equipment and techniques in the area of Molecular/Cell Biology to relevant staff/students to ensure objectives are met.

The research will involve identifying the localisation and functional role of Plasmodium proteins in in atypical cell division in malaria parasite. The work involves state of art conditional knockout system, manipulating parasite development in the host and mosquito vector, and mostly cell biology and proteomics approaches.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	Research Support <ul style="list-style-type: none">Conduct primary research that will underpin the goals of the project, and to perform Molecular Cloning/Cell Biology and tissue culture experiments. the post-holder will be trained in these experiments but will be expected to perform them independently.	60%
2	Technical running of the Laboratory <ul style="list-style-type: none">Plan and oversee the day-to-day technical running of the laboratory, allocating resources and providing technical supervision to ensure research objectives of the project are met. Advise on the purchasing of equipment and consumables, ensuring the adequate stocks of laboratory supplies and maintaining appropriate records.	5%
3	Interpretation of results <ul style="list-style-type: none">Assist in the interpretation of results, advising staff and students of the application, techniques and use of relevant laboratory equipment. Train and advise staff and students on the use of equipment, the setting up of experiments and/or deployment of particular techniques.	5%
4	Routine Maintenance <ul style="list-style-type: none">To conduct regular routine maintenance of the insectary	10%
5	Specialist Advice	5%

	<ul style="list-style-type: none"> ▪ To provide quality and timely advice, assist and train staff and students on the development, design, preparation, construction, assembly and application of equipment, the setting up of experiments and/or deployment of particular techniques. 	
6	Health and Safety <ul style="list-style-type: none"> ▪ Monitor Health and Safety in the performance of all duties by assessing the risks of the planned activity and performing the tasks having considered, and acted to secure, the safety of yourself and others. ▪ Ensure students and new researchers are trained in techniques and the safe and effective use of equipment to ensure compliance with relevant health and safety regulations, including carrying out safety risk assessments. 	5%
7	Communication <ul style="list-style-type: none"> ▪ Communicate effectively information to the School of Life Sciences and wider university as required, and ensure the accurate completion of documentation, records and reports in order to comply with research quality standards. 	5%
8	<ul style="list-style-type: none"> ▪ Any other duties appropriate to the grade and role 	5%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> Standard laboratory techniques and procedures; good microbiological laboratory practice; use of general lab equipment; existing skills in Molecular Cloning techniques. Analytical ability to interpret testing requirements. Problem solving skills. Excellent oral and written communication skills, including the ability to communicate with clarity on complex information. Good customer relation skills. Ability to work accurately in order to maintain high standards, with the ability to work effectively under pressure. Ability to adopt a methodical approach to work in order to achieve work deadlines. Ability to build relationships and collaborate with others. 	<ul style="list-style-type: none"> Existing skills and knowledge of QPCR, Protein Purification, Western Blotting. Experience of Microscopy. Ability to learn new techniques and adapt as required. Demonstrated skills in variety of laboratory techniques, in particular Cell Biology
Knowledge and experience	<ul style="list-style-type: none"> Proven technical experience in a Molecular Cloning laboratory. An understanding of regulations and procedure governing laboratory work (including Home Office and Health and Safety) and implications of noncompliance of other staff. Experience of working with insects. 	<ul style="list-style-type: none"> Experience of managing a busy research laboratory. Good understanding of COSHH and risk assessment.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> Minimum of HNC in relevant subject, or equivalent qualifications plus some work experience in relevant role or Previous work experience in relevant role 	<ul style="list-style-type: none"> Degree in Biology or related subject. Additional qualifications in laboratory skills e.g. Health and Safety. Professional Registration



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



