



Job Description and Person Specification

Last updated: July 2022

JOB DESCRIPTION

Post title:	Senior Molecular Biologist		
Academic Unit/Service:	Cancer Sciences		
Faculty:	Medicine		
Career Pathway:	Technical and Experimental (TAE)	Level:	5
*ERE category:	n/a		
Posts responsible to:	Professor of Molecular Immunology & Director of Translational Immunology & Professor of Imaging & Biomedical Engineering		
Posts responsible for:	Junior staff members and oversight of laboratory members		
Post base:	Non Office-based (see job hazard analysis)		

Job purpose

To independently develop, oversee and manage the molecular biology/protein engineering operations in the laboratory. This will include line management of one or more junior technicians, and interactions with personnel within and outside the research group to ensure the timely completion of research projects. In addition, the job will involve the carrying out of research projects using advanced molecular biology, protein engineering and expression techniques, most likely in a team setting. The candidate is expected to develop new skills readily and be proactive in problem solving.

Key a	Key accountabilities/primary responsibilities	
1.	Carry out and support ongoing research with experimentation related to the scientific mission of the laboratory, with a focus on molecular biology, protein engineering and expression including the use of phage display and methods for in vitro characterisation of proteins.	40 %
2.	Role in writing scientific manuscripts, progress reports and other scientific documents.	15%
3.	Responsible for training and oversight of laboratory members, including junior technicians, in laboratory techniques and procedures.	15%

Key accountabilities/primary responsibilities		% Time
4.	Oversight of regulatory, biosafety and compliance issues related to molecular biology/protein engineering techniques.	5 %
5.	Work with the administrative support to ensure maintenance of supplies for the running of the molecular biology, protein engineering and expression work in the laboratory.	5 %
6.	Oversight of laboratory inventories/databases for molecular biology, protein expression work and related experimentation.	10 %
7.	Any other duties as allocated by the line manager following consultation with the post holder.	10%

Internal and external relationships

Laboratory members

Departmental administrators/managers

Other members of the department/University staff

External collaborators

Relevant suppliers and external contacts

Special Requirements

The post-holder will be expected to be available for out of hours work (which may include evenings, weekends, University closure periods, etc.) as necessary to perform their job duties, to adhere to experimental protocols and meet grant deadlines.

PERSON SPECIFICATION

Criteria	Essential	Desirable	How to be assessed
Qualifications, knowledge and experience	Skill level equivalent to achievement of a professional qualification or postgraduate degree. Knowledge in molecular biology, protein engineering and expression, in vitro characterisation of proteins equivalent to Ph.D. level. Substantial experience in a relevant technical field, with proven experience of successfully planning and progressing work activities. Proven experience of managing outcomes in a specialist research field. Experience in software related to research and research management. Proven project and/or people management skills. Able to apply experience and awareness within specialist field. Able to appreciate University and Laboratory priorities and to apply these in managing work outcomes.	Knowledge of phage display technology or other selection/library techniques.	Qualification verification/ Interview/ Application form
Planning and organising	Able to plan and manage major new projects or significant new activities. Able to multi-task and work under pressure Able to work under pressure.		Application/ Interview/ Probation
Problem solving and initiative	Able to self -motivate and work on own initiative. Demonstrable ability to solve complex problems. Ability to apply specialist technical knowledge to identify broad trends and to assess deep-rooted and complex issues. Able to apply originality in modifying existing approaches to solve problems.		Application/ Interview/ Probation
Management and teamwork	Able to manage team dynamics, ensuring any potential for conflict is managed effectively. Able to assist with the design of research plans for junior technicians and other laboratory members in molecular biology, protein engineering and expression. Able to provide expert guidance and advice to colleagues to resolve complex problems.		Application/ Interview/ Probation

Communicating and influencing	Ability to write with clarity and be able to communicate effectively with colleagues. Able to present new and complex information effectively, both verbally and in writing. Able to resolve tensions and difficulties as they arise.	Application/ Interview/ Probation
Special requirements	Willingness to undertake Health and Safety training specific to role. Willing to undertake further training and professional development as needed. Able to work out of (which may include evenings, weekends, University closure periods, etc.) as necessary to perform their job duties, to adhere to experimental protocols and meet grant deadlines.	Application/ Interview/ Probation

JOB HAZARD ANALYSIS

Is this an office-based post?

	If this post is an office-based job with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete the section below.
	If this post is not office-based or has some hazards other than routine office (eg: more than use of VDU) please complete the analysis below.
	Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder.

- HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.

ENVIRONMENTAL EXPOSURES	Occasionally (<30% of time)	Frequently (30-60% of time)	Constantly (> 60% of time)
Outside work	n/a	n/a	n/a
Extremes of temperature (eg: fridge/ furnace)	n/a	n/a	Na/
## Potential for exposure to body fluids	\checkmark		
## Noise (greater than 80 dba - 8 hrs twa)	n/a	n/a	n/a
## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below:		\checkmark	
Frequent hand washing	\checkmark		
lonising radiation	\checkmark		
EQUIPMENT/TOOLS/MACHINES USED			
## Food handling	n/a	n/a	n/a
## Driving university vehicles(eg: car/van/LGV/PCV)	n/a	n/a	n/a
## Use of latex gloves (prohibited unless specific clinical necessity)	n/a	n/a	n/a
## Vibrating tools (eg: strimmers, hammer drill, lawnmowers)	n/a	n/a	n/a
PHYSICAL ABILITIES			
Load manual handling	n/a	n/a	n/a
Repetitive crouching/kneeling/stooping	n/a	n/a	n/a
Repetitive pulling/pushing	n/a	n/a	n/a
Repetitive lifting	n/a	n/a	n/a
Standing for prolonged periods	\checkmark		
Repetitive climbing (ie: steps, stools, ladders, stairs)	\checkmark		
Fine motor grips (eg: pipetting)		\checkmark	
Gross motor grips	\checkmark		
Repetitive reaching below shoulder height	\checkmark		
Repetitive reaching at shoulder height	\checkmark		
Repetitive reaching above shoulder height	\checkmark		
PSYCHOSOCIAL ISSUES			
Face to face contact with public	n/a	n/a	n/a
Lone working	\checkmark		
## Shift work/night work/on call duties	n/a	n/a	n/a