HR191

POSITION DESCRIPTION



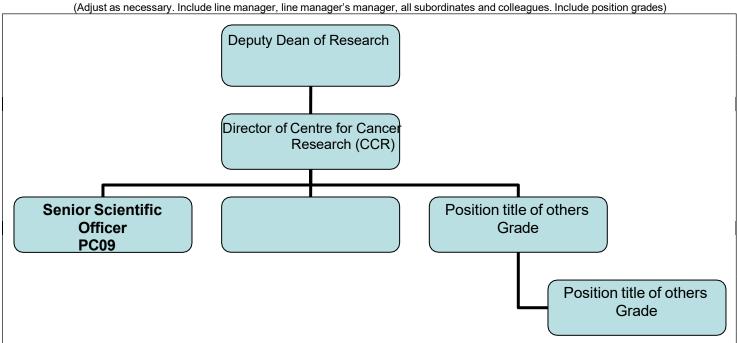
NOTES

- Forms must be downloaded from the UCT website: http://forms.uct.ac.za/forms.htm
- This form serves as a template for the writing of position descriptions.
- A copy of this form is kept by the line manager and the position holder.

POSITION DETAILS

Position title	Senior Scientific Officer		
Job title (HR Business Partner to provide)			
Position grade (if known)	PC09 Date last graded (if known)		
Academic faculty / PASS department	Health Sciences		
Academic department / PASS unit			
Division / section			
Date of compilation	3 rd April 2025		

ORGANOGRAM



PURPOSE

The main purpose of this position is:

Provide overarching laboratory management, ensuring a safe and efficient working environment for students and researchers in a molecular and cell biology setting. This includes establishing and supervising workflows involving patient samples, RNA/DNA isolation & handling techniques, protein extraction, isolation and analysis tools, and immortalization of patient derived probes by generating cell lines and organoid cultures. The Scientific Officer will train postgraduate students, postdoctoral fellows, interns, and visiting researchers in molecular and cell biology methods, and carry out experiments that contribute to scientific publications.

CONTENT

	CONTENT			
	Key performance areas	% of time spent	Inputs (Responsibilities / activities / processes/ methods used)	Outputs (Expected results)
E.g.	General and office administration	25%	Takes, types up and distributes minutes and agendas for monthly departmental meeting.	All staff members receive an electronic copy of accurate minutes and agendas, in the departmental template/format, a week before the meeting.
			Greets visitors, enquires as to the nature of their visit and directs them to the appropriate staff member.	Visitors are directed to appropriate staff member in a professional and efficient manner.
1	Establishment, management and maintenance of research laboratory	50%	 Oversee the upgrade and preparation of a fully functional molecular and cell biology laboratory for cutting edge oncology research. Liaise with contractors and service providers to execute and complete work on the laboratory as indicated above. Enforce proficient and safe laboratory practices by postgraduate students, postdoctoral fellows, and visiting/collaborating researchers. This includes teaching the correct procedures for handling, storing and disposing of hazardous reagents and waste. Coordinate cleaning and laboratory housekeeping. Overseeing the disposal of routinely generated hazardous waste. Head and run the laboratory Record all information regarding reagents used in the laboratory such as order details, applications, and safety. Troubleshoot and solve any problems that impact the smooth running of the laboratory, such as problems with protocols, equipment, and infrastructure of the laboratory. Coordinate servicing, calibration, and repair of laboratory instruments when necessary. Provide technical support to staff/students/visitors for the use of specialized equipment. Follow up on most updated SOPs. Coordinating maintenance of instruments/devices/specialized equipment. Discuss problems concerning products with suppliers. 	Efficient and safe operation of all laboratory functions is achieved. Postgraduate students, postdoctoral fellows and visiting/collaborating researchers are aware of good laboratory practices. Laboratory is maintained in good condition. Databases of all chemicals and reagents, for ordering and reference purposes, are current and accessible. Equipment is maintained in good working order to ensure projects run smoothly. Ensuring that hazardous waste is handled and disposed of correctly and safely.

2	Teaching/training support	30%	Be well acquainted with basic and advanced molecular and cell biology laboratory techniques as well as those relevant to cancer research. Teach/train basic and advanced molecular and cell biology protocols to postgraduate students, postdoctoral fellows, and visiting/collaborating researchers. Assist with supervision of postgraduate students, postdoctoral fellows, and visiting/collaborating researchers. Compile SOPs for laboratory techniques. Assist with collaborative research.	 Postgraduate students, postdoctoral fellows and visiting/collaborating researchers are equipped with the necessary technical expertise. Postgraduate students, postdoctoral fellows and visiting/collaborating researchers can work independently and efficiently. Quality of work produced by postgraduate students, postdoctoral fellows and visiting/collaborating researchers are of a high standard. SOPs must achieve efficiency, quality output and uniformity of performance. Contribute to the research outputs of the CCR.
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3	Research support	10%	Keep up-to-date with new laboratory technologies to support/improve research outputs. Be fully trained in the monitoring and handling of rodents for research purposes. Liaise with representatives from scientific manufacturers/suppliers to discuss new technologies and reliability/effectiveness of products. Assist with grant and research paper writing, budget designs and reporting on progress for grants. Assist with publications of studies started by postgraduate students/postdoctoral fellows who have left the laboratory by completing outstanding experiments. Assist the Director of the CCR with fundraising.	Efficiency in experimental research is improved. Successful in-vivo research is achieved. Contribute to the research outputs of the CCR. Expand the repertoire of laboratory technologies and ensure that the laboratory remains up to date with current technology. Contribute to attracting funding required for training of postgraduate students, postdoctoral fellows and visiting/collaborating researchers. Contribute to attracting funding required for postgraduate students and postdoctoral fellows to carry out their research projects. Contribute to accountability to funders.
4	General administration	10%	Place orders and keep records of stocks.	Laboratory stocks are current and accurately

Oversee all the funds and grants.

visiting/collaborating researchers.

and invoices.

animal husbandry.

• Filing documents including those related to reagents

received through orders or requests from other

researchers, equipment servicing and calibration records

• Organise campus access, desk and laboratory space

for postgraduate students, postdoctoral fellows, and

• Monitor and make payments for research services, including waste management, confocal microscopy, and

maintained.

efficiently timed.

• Information and documentation is maintained in an

• Application of funds is tightly controlled, and orders are

• Postgraduate students, postdoctoral fellows and

visiting/collaborating researchers are successfully

orderly fashion and accessible to Pl.

inducted into the laboratory environment.

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MINIMUM REQUIREMENTS

	MINIMUM REQUIRI					
Minimum qualifications	MSc degree in Molecular and Cell Biology or a related discipline with at least 3 years of experience managing and supervising a molecular and cell biology research laboratory OR					
	 PhD degree in Molecular and Cell Biolomanaging and supervising a molecula 		related discipline with at least 2 years of expell biology research laboratory	perience		
	Demonstrated experience in compliance	related	to relevant regulations			
Minimum experience (type and years)	Experience in providing support and training undergraduate/postgraduate students in molecular and cell biology techniques					
	Experience with rodent experiments relevant to cancer research.					
Skills	 including quality control and documer Experience in performing experiments Experience with assistance in grant are progress for grants Computer literate and be fully compe 	ted stores relevant research in I	nt to cancer biology including in vivo anima arch paper writing, budget designs and repo Microsoft Office (Word, Excel, PowerPoint) for statistical analysis ability to operate rele	I work orting on and be		
	Molecular and cell biology techniques.					
Manual adam	Animal models for cancer research.					
Knowledge	Engagement with suppliers of products for molecular and cell biology techniques.					
	Supervising postgraduate students.					
Professional registration or license requirements	SAVC registered and authorized to monitor ar	nd handle	e rodents will be an advantage.			
Other requirements						
(If the position requires the handling of cash or finances,						
other requirements must include 'Ability to handle cash or finances'.)	Research ethics.					
	Competence	Level	Competence	Level		
Competencies	Follow up	2	Student Service and Support	2		
(Refer to UCT Competency	Information management	2	Coaching / Developing Others	2		
Framework)	Building interpersonal relationships	2	Individual Leadership	2		
,	Continuous learning	2	Decision-making/ Judgement	2		
	Professional knowledge and skill	2	Quality commitment/ work standards	2		
	Research support skills	2	Safety awareness	2		
	People management (including performance management and development)	2	Planning and organizing / work management	2		
	Stress tolerance	2	Teamwork / collaboration	2		
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SCOPE OF RESPONSIBILITY

Functions responsible for	General laboratory management. Ensuring a safe, efficient working environment for postgraduate students, postdoctoral fellows and visiting/collaborating researchers. Training and support of postgraduate students, postdoctoral fellows and visiting/collaborating researchers.
Amount and kind of supervision received	Moderate supervision received.
Amount and kind of supervision exercised	Moderate supervision received.
Decisions which can be made	Financial management and ordering. Ensuring safe research environment. Laboratory management.
Decisions which must be referred	Training of postgraduate students, postdoctoral fellows and visiting/collaborating researchers. Laboratory management.

CONTACTS AND RELATIONSHIPS

i internat io tital	Full contact and relationships with all departmental academic and PASS staff as well as postgraduate students. Some contact with undergraduate students (HUB1006 and IBS1007S).
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External to LICI	Liaising with representatives from scientific manufacturers/suppliers. Some contact with PI's collaborators and their postgraduate students.
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