

JOB DESCRIPTION

POST	Analytical Chemist		
CONTRACT	Fixed term		
REFERENCE NO	111-19		
REPORTS TO	Dr. Svetlana Ryazanskaya		
ROLE PURPOSE/SUMMARY	To develop and evaluate analytical surface chemistry techniques such as Imaging MALDI-ToF for quantitative analysis of insecticides from a given surface. Demonstrate comparison with conventional analytical techniques.		
SCOPE/BACKGROUND	IVCC is a not-for-profit public-private partnership that was established as a charity in 2005. Our mission is to save lives, protect health and increase prosperity in areas where disease transmitted by insects is endemic.		
	We bring together the best minds to create new solutions to prevent disease transmission. By focusing resources and targeting practical scientific solutions we accelerate the process from innovation to impact. With main funding from Bill and Melinda Gates foundation, we are developing and evaluating analytical surface chemistry techniques for quantitative analysis of insecticides from a given surface in collaboration with the University of Liverpool.		
	The work will mostly be undertaken at the Department of Chemistry of University of Liverpool under supervision of Prof. Peter Myers.		

ROLE SPECIFIC RESPONSIBILITIES

	KEY	KEY ACTIONS				
	RESPONSIBILITIES	These set out how the Key Responsibilities will be achieved				
1		Imaging MALDI-ToF methods development for various insecticides on long lasting insecticidal nets				
	Apply analytical chemistry expertise	Devise appropriate assays for new chemistries with novel modes of action				
	to support IVCC's project portfolio	Preparation of reports for stakeholders and international bodies and manuscripts for publication				
		Design and perform experiments to explore surface chemistries and their interactions				
		Explore synergies between chemistries on a given surface				
2 Data management Develop and write up SOPs		Develop and write up SOPs				
		Generate and analyse the data on analytical surface chemistry datasets				
	Preparation of results for manuscripts / publishable formats					
		First point of contact with responsibilities for data management				
3	3 Provide support to IVCC technical staff Assist in the design of internal projects					
	and project partners	Provide training in surface chemistry techniques to others in IVCC and project partners				

FURTHER RESPONSIBILITIES

	KEY RESPONSIBILITIES	KEY ACTIONS These set out how the Key Responsibilities will be achieved		
1 General		First point of contact with responsibilities for setting up equipment and protocols, for maintaining research outputs and troubleshooting as required.		
		Assist with the development and implementation of data/sample management tools for the project		
		Promote equality of opportunity and inclusive practice in all aspects of work undertaken		
		Act in a manner that safeguards children and/or vulnerable adults as applicable to the role		
		Any other duties commensurate with the grade and nature of the role		

PERSON SPECIFICATION

POST	Analytical Chemist

COMPETENCY CRITERIA	ESSENTIAL/ DESIRABLE	ASSESSMENT
Qualifications, Training & Knowledge		
PhD in Analytical Chemistry, Chemistry or Material Science	Essential	Application & CV
Expertise in data analysis and interpretation	Essential	Application, CV & interview
Knowledge of insecticidal chemistries	Desirable	Application, CV & interview
Experience		
Well-developed research skills: proven ability to define research aims, devise methods and complete investigations.	Essential	Interview
Publication record in peer reviewed journals	Essential	Application
Design and execute experimental plans to agreed timelines	Essential	Application, CV & interview
Document and report key insights, developments and observations	Essential	Application, CV & interview
Experience in working with insecticides	Desirable	Application, CV & interview
Proven record presenting research findings in oral and written format	Desirable	Application, CV & interview
Experience in imaging MALDI-ToF method development	Desirable	Application, CV & interview
Skills & Behaviours		
Knowledge and behaviours that support equality, diversity and inclusive practice	Essential	Interview
Knowledge and behaviours that support safeguarding as applicable to the role	Essential	Interview
Ability to synthesise and critically appraise large volumes of scientific literature	Essential	Interview
Good problem-solving skills and ability to take initiative	Essential	Interview
Excellent organisational ability and attention to detail	Essential	Interview
Circumstances		
Fixed Term position (12 months)		
Based in Liverpool and must be available to work at UoL or IVCC		