

# JOB DESCRIPTION



<b>Job Title:</b>	Research Associate
<b>School/Service:</b>	Pharmacy and Biomedical Sciences
<b>Grade:</b>	Grade G
<b>HERA Reference:</b>	HERA/18245
<b>Responsible to:</b>	Prof Kamalinder K Singh

## Job Purpose:

To work with Professor Kamalinder K Singh within the Faculty of Clinical and Biomedical Sciences and to develop with the support of senior academics a programme of research on 'Innovative Nanostructures for Improved drug therapeutics'. To support the provision of high quality research and scholarly activity within agreed thematic areas. To contribute to applications for external competitive grants and publish high impact, peer reviewed papers in collaboration with others. The post-holder will participate in the training and dissemination of research with peers, undergraduate and postgraduate students and external agencies and organisations, as well as collaborate in the on-going supervision of postgraduate students.

## Main Duties and Responsibilities:

1. Alongside senior academics, to contribute to existing research projects, support the development of new projects in collaboration with the research group and to develop, with support, their own programme of research relevant to the values and ethos of the thematic areas.
2. To contribute to existing and future research/evaluation projects including the writing of research proposals/grant applications for external funding; writing documentation for ethics application; undertaking systematic literature reviews; performance and monitoring of projects, data analysis and preparation of detailed research/evaluation reports.
3. To contribute to the supervision and coordination of activities of junior research staff.
4. To contribute to the dissemination of outputs from research/evaluation projects through conferences, seminars, courses and publications in high quality peer reviewed journals.
5. To contribute to the development of collaborative research/evaluation grant proposals.
6. To provide teaching support/presentations to undergraduate/postgraduate sessions and ad hoc training, where relevant to research skills and interests.
7. To attract, support and contribute to the supervision of postgraduate research students (Masters and PhD Students).
8. To support existing links and foster new links with relevant external agencies and organisations and to help sustain and develop the work of the research group through research activities.
9. To contribute to the development of interdisciplinary research and scholarship across the School.
10. To update specialist knowledge and understanding and translate this into research activity.
11. To support on-going activities of the research group through contributing to planning seminars, conferences and other external-facing activities.
12. Adhere to appropriate ethical and research governance standards for research and protect confidentiality throughout this work.
13. To engage in appropriate knowledge transfer activities.
14. Any other activities in line with the requirements of the role as determined by the Line Manager/Executive Dean of Faculty.

**Signed:**

**Date:**

# PERSON SPECIFICATION

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Attributes	Essential	Desirable	Measured By
<b>Work Experience</b>	Experience of research in Nanomedicine/Drug delivery/Pharmaceutics/Pharmaceutical Sciences or a related area.	Experience of contributing to writing research grant proposals	Application form Interview
	Experience in Nanoparticle formulation development	A track record in the development of nanoparticle formulations	Application form and Interview
	Experience in various cell culture techniques and cell based assays	Experience in <i>in vitro</i> 2D and 3D cell culture models	Application form and interview
	Evidence of external esteem through publications or similar.	Demonstrable project management experience	Application form and interview
<b>Education/ Qualifications</b>	PhD (or near completion in Drug delivery/Nano medicine/Pharmaceutics or a closely related area.		Application form Academic certificates
	Undergraduate degree in a pharmaceutical science/ Biological Sciences/ (2(i) or above)		Application form Academic certificates
<b>Skills/ Abilities</b>	A broad knowledge of Pharmaceutical Sciences.	Ability to develop own research	
	Competence in a variety of relevant research techniques.	Awareness of R&D process in pharmaceutical companies.	
	Competence in various cell culture techniques and cell based assays	2D and 3D cell culture models	
	Ability to independently develop nanopharmaceutical formulations		
	Ability to work with HPLC, DSC, XRD, flow cytometer and imaging techniques.		
	Demonstrable skills in literature searching and data compilation and analysis using required software.		

	Excellent writing skills and publications in peer reviewed journals or similar.		
	Active networker with ability to collaborate with other workers in university and industry research laboratories.		
	Experience of presentation at national and/or international conferences		
	<p>Ability to contribute to publications and reports through good academic research writing skills</p> <p>Ability to work alone and carry out a range of research tasks autonomously and also to work as part of a team</p> <p>Ability to work independently and as part of a team flexibly to ensure agreed work targets are achieved</p>	<p>Sound skills in using Word, PowerPoint, Excel.</p> <p>Ability to coach, mentor and support colleagues in developing research techniques</p> <p>Experience of using qualitative and/or quantitative software analysis computer programmes</p> <p>Track record of publications and experience of presenting research at conferences</p>	
<b>Other</b>	Excellent communication skills with academics, students and research collaborators.	Evidence of international recognition in specialism.	
	Good team worker.	Active member of appropriate Learned Societies.	
	An understanding of and demonstrable commitment to the University's Values of Common Sense, Compassion, Teamwork, Attention to Detail, and Trust as a framework for decisions, actions and behaviours.		

<b>Compiled by:</b>		<b>Date:</b>	
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