Job Description

Job title: Postdoctoral Research Fellow

Faculty/Directorate: Health and Life Sciences

Grade: F **Role profile: PDRF**

Full time: 1.0 FTE **Fixed term contract: Funding is available for 19 months**

	Duties of the role
Overall purpose of the role	You will work on a multi-disciplinary research project funded by the EPSRC and 10 industrial partners, focussing on developing predictive models for predicting the drug release profile of an immediate release tablet in simulated gastrointestinal environments.
Main duties and responsibilities	Under the supervision of the academic leads, the successful candidate will be expected to: • Conduct specific research work required in the project. • Work closely with partners to ensure the progress of work adheres to the programme timescales. Report problems and non-compliances to the Project Team. • Comply with the agreements regulating the framework of the project. • Dissemination of the results of the research as the work progresses, in verbal and in written form, through attendance at regular project meetings and conference calls. • Support presentations and papers at scientific meetings and conferences; and generation of outputs as agreed with the supervisor and funding provider. • Contribute additional material and inputs as required for publications by the academic team. • Promote knowledge and technology exchange when required. • Engage with other academic duties where required commensurate with the job grade as reasonably required from time to time.
Other Duties	All Faculty staff are expected to: • Comply with the University's Health and Safety, Equal Opportunities and Computing policies in the performance of their duties • Take reasonable care of the Health and Safety of themselves and that of any other person who may be affected by their acts or omissions at work • Cooperate with the University in ensuring as far as is necessary, Statutory Requirements, Codes of Practice, University and Faculty policies are complied with • Treat all DMU staff, students, contractors and visitors with dignity and respect. • Provide a service that complies with the Equality Act 2010, eliminating unlawful discrimination, advancing equality of opportunity and fostering good relations with particular attention to the protected characteristics of age, disability, gender reassignment, marriage and civil partnership, pregnancy and maternity, race, religion or belief (or none), sex and sexual orientation. The post holder is required to minimise environmental impact in the performance of the role, seek to promote environmental sustainability within area of responsibility and actively contribute to the delivery of the DMU Environmental Policy. • To undertake responsibilities and duties normally expected within good academic citizenship. • Attend appropriate staff development events.

Person Specification

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Area of responsibility	Requirements	Essential or desirable		*Method of assessment			
				A	I	P	D
Education, Training and Qualifications	A good first degree in Pharmaceutical Science/Pharmaceutics, Chemistry, Chemical engineering or a related subject.	Essential		x			x
	A PhD (or to have submitted their thesis prior to taking up the post) in Chemical Engineering, Computational modelling, Pharmaceutical Technologies, Organic Chemistry, or a related subject.	Essential		x			x
Specific knowledge/ skills/ abilities/ motivation/ attitude required	Experience in conducting high quality academic research	Essential		x	x		
	Experience in using software of BIOVIA Materials Studio and/or ANSYS CFD		Desirable	x	x		
	Competence and excellence with Numerical calculation and programming, such as Excel and MATLAB		Desirable	x	x		
	Experience in dissolution modelling/experiments		Desirable	x	x		
	Experience in online data collection and analysis (e.g., imaging data collection and analysis)		Desirable	x	x		
	Experience in design of oral dosage form medicine (e.g., tablet and capsule)		Desirable	x	x		
	Experience in modelling of nucleation and growth kinetics for crystallization /granulation processes using population balance modelling		Desirable	x	x		
Personal abilities and qualities	Excellent problem solving and analytical skills, demonstrated logical and rigorous approach to work.	Essential		x	x	x	
	Demonstrated ability to work both as part of a team and on own initiative.	Essential			x		
	Well-developed self-management skills with the ability to prioritise work appropriately, deal with several competing demands, manage own time effectively and deliver results to an agreed schedule.	Essential		x	x		

Area of responsibility	Requirements	Essential or desirable		*Method of assessment			
				A	I	P	D
	Strong verbal and written communication in a team environment and good presentation skills.	Essential		x	x	x	
	Ability to communicate effectively with colleagues from a wide range of backgrounds.	Essential			x	x	
	Good oral and written communication skills.	Essential			x	x	

***A = Application Form; I = Interview; P = Presentation; D = Documentary Evidence**