



Candidate Information

Position:	Research Fellow
School/Department:	Wellcome Wolfson Institute for Experimental Medicine (QUB) / School of Medicine (UU)
Reference:	22/109727
Closing Date:	Monday 25 April 2022
Salary:	£34,304 - £37,467 per annum
Anticipated Interview Date:	6 May 2022
Duration:	Available until 30 April 2023

JOB PURPOSE:

To initiate, develop and manage high level research projects in line with the School's research strategy.

MAJOR DUTIES:

Research:

1. To oversee key aspects of Dr Lengyel's research programme that combines molecular pathology and therapeutic development for retinal diseases especially at the choroid/ retinal pigment epithelium interface. This includes development and optimisation of complex in vitro and in vivo model systems combined with the use of state-of-the-art imaging technologies and robust indicators of disease initiation and progression.
2. To manage the day-to-day activity of a complex research programme within the ophthalmology grouping, ensuring quality control, high-level management of resources, ensuring adherence to SOPs, development of new strands activity.
3. To act as a Deputy on DoH Project Licences relating to retinal disease and vascular diseases, involving competency, oversight of animal numbers for annual returns and also linkage into AWERB.
4. Carry out activities that underpin the development, implementation and management of research activities – especially those that link preclinical activity to the ophthalmology programme.
5. Contribute to high quality publications in refereed journals and presenting at national and international conferences.
6. Direct, coach and develop research students, where appropriate. Help in the training of students and post-doctoral fellows in practical work where applicable and advise on technical skills techniques.
7. Contribute to the work of the School through limited teaching and associated tasks within own research specialism.
8. Contribute to the School/Faculty's outreach strategy by developing relevant external links and partnerships.
9. Develop links with relevant research groups, industries, and external bodies (national and international where relevant) to encourage technology transfer opportunities and create opportunities for future research projects.
10. Carry out designated administrative duties.

ESSENTIAL CRITERIA:

1. Have or about to obtain a PhD in a relevant subject.
2. 3 years relevant experience with ophthalmology research, as demonstrated by involvement in projects and diversity of in vitro, ex vivo and/or in vivo model systems.
3. Recent and demonstrable skills in research programme management involving day-to-day oversight of complex projects.
4. Experience of developing research methodologies and devising models, approaches, critiques, and methods.
5. Computing skills especially software commonly used in biomedical research (for example imaging, flow cytometry, real-time PCR software, gene expression analysis).
6. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to enable work within established research programmes.
7. Ability to communicate complex information effectively.
8. Ability to manage resources.
9. Demonstrable intellectual ability.
10. Ability to supervise work of others in research team.
11. Problem solving skills.

12. Team working skills and experience.
13. Must demonstrate a clear interest in this area of research.
14. Must be prepared to work outside normal office hours.
15. Be prepared to travel for short trips to and work with collaborative partners.
16. Willing to attend and present at national and international meetings.

DESIRABLE CRITERIA:

1. Experience with experimental models of retinal diseases to assess retinal pigment epithelium and choroidal vasculature.
2. Experience in human cell culture.
3. Direct involvement in investigation of cell pathophysiology to include, functional responses, drug efficacy, signalling etc.
4. Recent experience with commercial academic research collaborations.
5. Hold a personal licence from the Dept of Health relating to animal research.
6. Supervise research projects of undergraduate and post graduate students.