

Candidate Information

Position:	Research Fellow - Retinal Immunopathology
School/Department:	Wellcome-Wolfson Inst for Experimental Medicine
Reference:	21/108744
Closing Date:	Monday 17 May 2021
Salary:	£33,797- £35,845 per annum
Anticipated Interview Date:	Tuesday 27 May 2021
Duration:	8 months with possibility of extension

JOB PURPOSE:

To join the retinal immunopathology research team within the Wellcome-Wolfson Institute for Experimental Medicine, Queen's University Belfast. The successful applicant will employ a broad range of cell and molecular biological and immunological approaches to study mechanisms of retinal fibrosis.

MAJOR DUTIES:

- 1. Develop and undertake research under supervision in accordance with a specified project.
- 2. To establish in vitro and in vivo models of retinal fibrosis.
- 3. To evaluate the role of inflammation in retinal degeneration and fibrosis using a range of laboratory techniques.
- 4. To evaluate retinal function and retinal pathology using a range of in vivo and in vitro techniques.
- 5. To evaluate in vitro and in vivo immune response using a range of laboratory techniques.
- 6. To evaluate retinal function and pathology using a rage of in vivo and in vitro techniques.
- 7. To design, develop and refine experimental apparatus or experiments in order to obtain reliable data.
- 8. To present regular progress reports on reserach to members of the group, funding body or to external audiences to disseminate and publish research findings.
- 9. To carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
- 10. Prepare, in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
- 11. Assist grant holder in the preparation of funding proposals and applications to external bodies.
- 12. Carry out routine administrative tasks associated with the research project/s to ensure that projects are completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
- 13. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.

Planning and Organising:

- 1. Plan for specific aspects of research programmes. Timescales range from 1-6 months in advance and contribute to research group planning.
- 2. Plan for the use of research resources, laboratories and workshops where appropriate.
- 3. Plan own day-to-day activity within framework of the agreed research programme.
- 4. Coordinate and liaise with other members of the research group over work progress.

Resource Management Responsibilities:

- 1. Routine ordering of research consumables.
- 2. Ensure research resources are used in an effective and efficient manner.
- 3. Provide guidance as required to support staff and any students who may be assisting with research.

Internal and External Relationships:

- 1. Liaise on a regular basis with colleagues and students.
- 2. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
- 3. Join external networks to share information and ideas.
- 4. Contribute to the School's outreach programme by establishing links with local community groups, industries etc.

ESSENTIAL CRITERIA:

- 1. Have or about to obtain* a PhD in vision science, cell biology, immunology, molecular biology, or a closely related area of biomedicine.
 - * must have submitted PhD thesis at the time of application.
- 2. At least 3-years recent, hands-on, postgraduate research experience that will demonstrate relevant practical and laboratory skills for this project, including experience in cell biology or immunology using appropriate model systems.
- 3. Practical skills in in vivo models of human disease.
- 4. Publications in internationally recognised peer reviewed journals. This list should be commensurate with stage of career and experience.
- 5. Experience with supervising undergraduate or post-graduate students in a research lab.
- 6. Ability to contribute to broader management and administrative processes.
- 7. Contribute to the School's outreach programme by links with industry, community groups etc.
- 8. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
- 9. Ability to communicate complex information clearly.
- 10. Ability to build contacts and participate in internal and external networks.
- 11. Demonstrable intellectual ability.
- 12. Ability to assess and organise resources.
- 13. Ability to work independently within the context of a research team.
- 14. Must demonstrate a clear interest in this area of research and show commitment to the specific research topic.
- 15. Must be prepared to work outside normal office hours.
- 16. Must be willing to travel to national and international meetings up to three times per annum.

DESIRABLE CRITERIA:

- 1. PhD in retinal cell biology or angiogenesis or immunology.
- 2. Recent hands-on research experience in cell and molecular biology approaches to address key research questions in the context of an ongoing project.
- 3. Experience in in vivo and in vitro models of retinal disease or diabetes.
- 4. Experience in in vivo retinal imaging techniques.
- 5. Experience of having presented at conferences (poster and/or oral presentations).
- 6. Experience of using software commonly used in biomedical research.
- 7. Background or research interests which are compatible with the post.
- 8. Long term goals in research.