



## Candidate Information

<b>Position:</b>	Research Fellow - Airway Innate Immunity Research Group
<b>School/Department:</b>	Centre for Experimental Medicine
<b>Reference:</b>	20/108255
<b>Closing Date:</b>	Wednesday 15 July 2020
<b>Salary:</b>	£33,797 per annum
<b>Anticipated Interview Date:</b>	Monday 3 August 2020
<b>Duration:</b>	36 months or until 30 September 2023

### JOB PURPOSE:

To be a highly productive, ambitious and collaborative member of the Airway Innate Immunity Research Group (AiiR) led by Prof. Cliff Taggart and Dr. Sinéad Weldon in the Wellcome Wolfson Institute for Experimental Medicine. The MRC-funded position will involve development and evaluation of novel therapeutic agents in models of acute lung inflammation. The successful applicant will have responsibilities in independent research, supervision, planning, day-to-day lab management, collaborations and outreach.

### MAJOR DUTIES:

1. Develop, plan and deliver an area of personal research and expertise, and/or undertake research under supervision within a research programme aimed at targeting inflammation in acute lung disease. Techniques will include in vivo experimental models, drug delivery and lung analysis.
2. Develop and implement, with support, a highly ambitious personal career development plan in the course of the post.
3. Maintain up-to-date knowledge of the field of interest at the cutting edge and communicate same to the group.
4. Carry out analyses, critical evaluations and interpretations of experimental data and the literature using methodologies and other techniques appropriate to area of research.
5. Present regular progress reports on research to members of the research group, other groups within the Institute/University, to external audiences nationally and internationally to disseminate and publicise research findings.
6. Prepare, often in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
7. Assist grant holder in the preparation of funding proposals and applications as well as project progress reports to external bodies.
8. Prepare competitive applications for own funding such as travel grants, project grants and fellowship applications.
9. Carry out routine administrative tasks associated with the research projects/group to ensure that projects are completed on time and within budget and that the group functions efficiently. These might include organisation of project/group meetings and documentation, financial control, stock management/procurement, risk assessment of research activities and development of SOPs. Carry out routine administrative tasks associated with the day-to-day running of the research group in a communal lab setting.
10. Carry out school/undergraduate/post-graduate student and visiting researcher training and supervision, demonstrating, tutoring or lecturing duties within the post holder's area of expertise and under the guidance of a member of academic staff.
11. Participate, and in some cases lead outreach activities on behalf of the group/Institute.
12. Participate in local research-related activities such as journal clubs, training sessions, seminar series etc.
13. Assist in assessment of research communications and data, particularly within the group.
14. Additional research and/or laboratory related duties including outreach activities, within the general range of the post and competence of post holder.

### Planning and Organising:

1. Plan for specific aspects of research programme. Timescales range from 1-18 months in advance and may contribute to overall research group planning.
2. Plan for access to, and use of, research resources, laboratories and workshops where appropriate.

3. Plan own day-to-day activity within framework of the agreed research programme as well as communal activities (e.g. meetings) were appropriate.
4. Coordinate and liaise with other members of the research group and collaborative research groups regarding work progress and stock management.
5. Assist in training other group members on effective planning and organisation.

**Resource Management Responsibilities:**

1. Ensure research resources are used in an effective and efficient manner including liaising with vendors and collaborators.
2. Provide guidance as required to support staff and any post-graduate/under-graduate students and visiting researchers who may be assisting with work of the group.

**Internal and External Relationships:**

1. Liaise on a regular basis with supervisor, colleagues, students and collaborators.
2. Communicate appropriately and effectively with lab colleagues topics such as latest research findings/results within the group and field.
3. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
4. Travel to, and present at scientific meetings and work in collaborative laboratories when necessary.
5. Join external networks to share information and ideas and help develop and maintain external collaborations, as appropriate.
6. Contribute to the School/Centre outreach programme.

**ESSENTIAL CRITERIA:**

1. Have, or about to obtain, a PhD in Respiratory Inflammation/Innate Immunity or a closely related area.
2. Home Office personal licence (modules 1-3).
3. 3 years recent relevant work experience to include 3 of the following:
  1. Animal handling
  2. Collection and analysis of mouse/rodent bronchoalveolar lavage
  3. In vivo mouse delivery of therapeutic and infectious agents (intraperitoneal, intratracheal delivery)
  4. Immunohistochemistry
4. Recent high-quality publications in reputable peer-reviewed journals, commensurate with career stage.
5. Methodical approach to project management and meticulous in regards to experimental procedures and record keeping.
6. Highly ambitious, motivated, efficient, organised and show a commitment to, and interest in, research topic.
7. Competent in maintaining knowledge of cutting-edge of field of expertise.
8. Competent in giving effective and informative oral and poster presentations.
9. Competent in communicating stipulated research skills essential to the post in CV/job application.
10. Strong ability to work from own initiative.
11. Excellent team working skills in multiple internal and external team settings.
12. Leadership qualities.
13. Excellent problem-solving skills.
14. Irregular hours including evening, weekend and other out-of-hours working will be a component of the research at times.
15. Must be willing to travel to national and international meetings and collaborative laboratories.

**DESIRABLE CRITERIA:**

1. Experience in tissue culture, in particular culturing mammalian cells qPCR, ELISA, Western blotting.
2. Research project management.
3. Up-to-date knowledge of fields of acute lung disease.