

**Job Description**

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| **Job Title:** | Research Fellow / post-doctoral researcher |
| **Department / School:** | The Roslin Institute/CMVM as part of CTLGH |
| **Reports To:** | Professor Lonneke Vervelde |

**Job Purpose**

We are seeking a post-doctoral research fellow to join the Roslin Institute, Avian Immunology Group, working as part of the Centre for Tropical Livestock Genetics and Health. You will be a motivated, enthusiastic, and creative researcher interested in working in the area of gut health, the interaction between immunity and nutrition and the development of a phenotypic screening platform using intestinal organoids,

**Main responsibilities**

* Plan, organise and conduct experiments under the supervision of Prof Vervelde. (65%)
* Monitor the progress of experiments and maintain accurate records of procedures and observations. Repeat or refine experiments as required and collate, analyse and interpret data toward publication. (25%)
* Liaise with collaborators at SRUC (Edinburgh) and ILRI (Ethiopia) toward completion of the experiments, project objectives and translation of findings. Prepare and deliver oral presentations or written reports describing research findings as required. (5%)
* Provide support to other members of the consortium and group. Contribute to the smooth operation of the laboratory, for example via the procurement of materials, maintenance of routine cultures or solutions, scrutiny of budgets and spending, and provision of advice and training to other members of the laboratory. (3%)
* Comply with standard operating procedures, risk assessments and the Quality Assurance scheme in fulfilment of the requirements of the Health & Safety Executive and Joint Funders Code of Practice for Research. For work involving licensed procedures with animals, comply with the requirements of the Animals (Scientific Procedures) Act 1986. Receive and provide training in such areas as required. Maintain or revise relevant documentation relating to safety and compliance matters under the supervision of Prof Vervelde. (2%)

**Planning & Organising**

Work will be directed by Prof Vervelde. A plan of action for completing the work required will be agreed. The post-holder will have responsibility for allocated tasks, and will prioritise and sequence objectives in order to meet agreed deadlines and milestones. This may involve detailed planning of specific tasks on a day-to-day basis and advance planning for longer periods. A degree of flexibility will be required as the post-holder may be involved in multiple objectives at once.

**Problem Solving**

The post-holder is expected to be a creative scientist and will be required to refine methods or adopt novel approaches to obtain optimal results. The post-holder should be able to collate, analyse and present results in a format that is easily interpreted. They will be aware of the high standards required for publication in peer-reviewed journals, and should be able to identify problems with the quantity, quality and accuracy of data arising from the research experiments and discuss them with the line manager to resolve issues jointly.

**Decision Making**

The post-holder will prioritise the time and resources in order to meet agreed deadlines or milestones and will select the most appropriate experimental strategy and/or protocols to meet project objectives in consultation with the line manager. The post-holder will select and procure the most appropriate materials, following pilot trials if appropriate, and refer to the literature or experts to refine the approaches taken if needed. Decisions to change the overall research strategy, or adopt new approaches, will be referred to the line manager in consultation with the team of collaborators.

**Knowledge Skills and Experience**

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| **Attribute** | **Essential** | **Desirable** |
| **Education, Qualifications & Training** | * PhD in animal or biomedical or biological sciences
* Proven track-record of high-quality research
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| **Knowledge & Experience** | * In vitro cell culture
* Immunology
 | * Infection models
* Gut physiology
* Metabolic assays
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**Dimensions**

The post-holder is expected to work with a high degree of independence in day-to-day work and support more junior group members in the team. Supervision of BSc and MSc students is encouraged.

**Additional Information**

A willingness to work with and travel to collaborators at SRUC (in Roslin Institute) and ILRI (Africa; Ethiopia and Kenya).

**Health & Safety Requirements for the role**

This job requires:

* Ongoing Health Surveillance

**Key Job hazard information specific to the role**

This role may result in potential exposure to certain hazards as listed below. These will be risk assessed by the school or department, which may require you to participate in, for example, health surveillance or follow other health and safety requirements.

* Working with animals, including birds.
* Working with pathogens and pathogen-infected materials.
* Work or contact with non-ionising radiation sources such as Lasers and hazardous EMF sources.
* Exposure to respiratory/skin sensitisers e.g. solder flux, latex, isocyanates, wood dust, glues and resins.
* International travel on behalf of the University

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