



Research Assistant



ROLE DESCRIPTION

GRADE

GRADE 4

LOCATION

Merchiston

LINE MANAGER

Dr Stathis Tingas

ROLE SUMMARY

The School of Computing, Engineering and the Built Environment (SCEBE) and the School of Applied Sciences (SAS) are seeking a research assistant to work on the development of a novel mathematical model that aims to describe the transmission mechanism of a zoonotic disease (Johne's disease) in cattle.

LINE MANAGEMENT RESPONSIBILITY FOR:

This role does not have any line management responsibilities currently.

MAIN DUTIES AND RESPONSIBILITIES

- Curating existing literature in the project area.
- Contributing in qualitative data collection.
- Conducting data analysis through advanced qualitative and quantitative methods
- Undertaking research to address the aims of the project, including the development of a mathematical model that describes the transmission of Johne's disease.
- Attending and initiating project meetings, as requested.
- Taking initiatives in the planning of research.
- Identifying suitable techniques for the collection and analysis of data.
- Ensuring the validity and reliability of data at all times.
- Maintaining accurate and complete records of all findings.
- Developing contacts and research collaborations within the University and the wider community.
- Contributing to project management.
- Carrying out any other duties as may be reasonably assigned by the PI or the co-I.
- Role model the University's values & behaviours.
- Be responsible for ensuring that the information and records processed (received, created, used, stored, destroyed) on behalf of the University are managed in compliance with ALL applicable legislation, codes and policies e.g. [Data Protection](#), [Information Security](#) and [Records Management](#).

PERSON SPECIFICATION

ESSENTIAL

DESIRABLE

EDUCATION / QUALIFICATIONS

- | | ESSENTIAL | DESIRABLE |
|---|-----------|-----------|
| <ul style="list-style-type: none"> Master's degree (or near completion) in one of the following areas: epidemiology, (applied) mathematics, computational biology or a similarly quantitative discipline; or equivalent combination of qualifications and relevant experience. | ✓ | |
| <ul style="list-style-type: none"> PhD in mathematical modelling of infectious diseases. | | ✓ |

SKILLS / EXPERIENCE

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Experience in infectious disease transmission dynamic modelling. | ✓ | |
| <ul style="list-style-type: none"> Experience in epidemiological data analysis for infectious diseases. | ✓ | |
| <ul style="list-style-type: none"> Experience in qualitative research methods for data collection and analysis. | ✓ | |
| <ul style="list-style-type: none"> Publications in high-quality conferences and journals in the areas of applied mathematics or epidemiology. | | ✓ |
| <ul style="list-style-type: none"> Excellent written and verbal communication skills, including presentation and report writing skills. | ✓ | |
| <ul style="list-style-type: none"> Excellent organisation, prioritisation and time management skills, with a flexible approach to working. | ✓ | |
| <ul style="list-style-type: none"> Strong attention to detail. | ✓ | |
| <ul style="list-style-type: none"> Ability to work independently and as a part of a team. | ✓ | |
| <ul style="list-style-type: none"> Excellent programming skills. | ✓ | ✓ |
| <ul style="list-style-type: none"> Excellent programming skills in Fortran. | | ✓ |



PART 2 - If the role has not been evaluated or is significantly different from the previous role, parts 1 and 2 of the role description form should be completed/updated. Please refer to the Role Description Guidance for Managers to support you completing this section. (*Part 2 will be used for role evaluation purposes only*).

ROLE ACTIVITIES & REQUIREMENTS
Communication
Teamwork and Motivation
Liaison and networking
Service delivery
Decision making



Planning and organising resources
Initiative and problem solving
Analysis and research
Sensory and physical demands
Work environment
Pastoral care and welfare



Team development
Teaching and learning support
Knowledge and experience
Any other significant activities not included above or any other information you want to highlight?