Candidate Information

Position: Research Fellow in Metataxonomic analysis of microbial communities
School/Department: Institute for Global Food Security
Reference: 22/109948
Closing Date: Monday 25 July 2022
Salary: £34,304 per annum
Anticipated Interview Date: Monday 8 August 2022
Duration: Available until 31 July 2023

JOB PURPOSE:

To be an active member of the Creevey Lab; Carrying out meta-taxonomic analyses of microbial communities as part of the EU SEASOLUTIONS project.

MAJOR DUTIES:

1. To undertake research under supervision of the principal investigator.
2. To implement and run the computational workflows necessary for understanding the microbial community profiles of rumen microbiome samples associated with strategies for reducing methane emissions in ruminants.
3. Carry out statistical analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
4. Generate reports and communicate the results of analyses with partners on the project.
5. Communicate orally and through e-mail effectively to line manager and those involved in the project.
6. Aid effective team working within the group led by the Principal investigator.
7. Supervision of students alongside the Principal Investigator.
8. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.   To undertake research under supervision within a specific research project.
9. Prepare, in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
10. Carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
11. 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.
12. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

ESSENTIAL CRITERIA:

1. Hold or is about to be awarded a PhD in a relevant area (biological sciences, microbiology,).
2. At least 3 years demonstratable research experience in computational approaches for the analysis of high-throughput DNA sequencing data from microbial communities.
3. Some experience of peer-reviewed publication in a relevant area of research.
4. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
5. Ability to communicate complex information clearly.
6. Demonstrable intellectual ability.
7. Ability to assess and organise resources.

DESIRABLE CRITERIA:

1. Experience in the analysis of rumen microbial communities.

2.   Demonstratable experience in the use of linux command-line systems for bioinformatics analyses.
3.   Knowledge of the challenges and approaches towards reducing methane emissions from ruminants.
4.   Some experience of supervising undergraduates and/or postgraduate students.
5.   Experience of presenting to the scientific community i.e. conference talks.