Candidate Information

Position:	Research Fellow
School/Department:	School of Biological Sciences
Reference:	19/107627
Closing Date:	Wednesday 7 August 2019
Salary:	£33,199 per annum.
Duration:	Available for 3 years or until 31 December 2022 at spinal point 30

JOB PURPOSE:

To be an active member of the research project/team assisting in the development of research proposals and the planning and delivery of the research activity within a specified area so that the overall research objectives of the project/school are met.

MAJOR DUTIES:

1. Develop and plan an area of personal research and expertise, and/or undertake research under supervision within a specific research project or as a member of a research team.
2. Design, develop and refine experimental apparatus, field research or experiments in order to obtain reliable data.
3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
4. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
5. Prepare, often in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. 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.
8. 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.
9. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

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. Plan up to a year in advance to meet deadlines for journal publications and to prepare presentations and papers for conferences.
5. Coordinate and liaise with other members of the research group over work progress.

Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
2. 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 a relevant area such as computational biology, bioinformatics, or microbiology, with a focus on computational analyses.
2. At least 3 years recent relevant research experience.
3. Experience in the development of computational pipelines for metagenomic and metatranscriptomic data applied to diverse environments.
4. Contribute to general culture of the laboratory, particularly passing on skills to new members
5. Experience of high-throughput middleware/pipeline design for biological analysis.
6. General familiarity with common bioinformatics tools, utilities, programming languages and operating systems.
7. Experience in the use of statistical methods for data analysis.
8. Development of methodologies to identify ecological traits in metagenomic data.
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.

DESIRABLE CRITERIA:

1. Experience in the analysis of aquatic and ruminal metagenomes.
2. Experience in international contexts.
3. Developing and maintaining open source packages.
4. Experience programming in Python.