

## Candidate Information

<b>Position:</b>	Research Assistant
<b>School/Department:</b>	School of Natural and Built Environment
<b>Reference:</b>	20/108334
<b>Closing Date:</b>	Monday 28 September 2020
<b>Salary:</b>	£28,331 per annum.
<b>Anticipated Interview Date:</b>	Week Commencing Monday 12 October 2020
<b>Duration:</b>	This position is available on a fixed-term contract basis from 1 October 2020 to 30 Sept 2023.

### JOB PURPOSE:

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

### MAJOR DUTIES:

1. Conduct inter-disciplinary research in the area of environmental / molecular microbiology on stabilisation of soils and wastes.
2. Record, analyse and write up results of own work and contribute to the production of research reports and publications.
3. Prepare regular progress reports on the performed research and training activities.
4. Present the research outcomes to the group research seminars and to external audiences to disseminate and publicise research findings.
5. Study and follow the technical literature including academic papers, journals and textbooks to keep abreast with the state-of-the-art in the project topical area.
6. Undertake work secondments with project partners as required, Carry out any other duties designated by a line manager and which fall within the general ambit of the post.
7. Conduct inter-disciplinary research in the area of environmental / molecular microbiology on stabilisation of soils and wastes.
8. Record, analyse and write up results of own work and contribute to the production of research reports and publications.

### Planning and Organising:

1. Manage own time and meet agreed deadlines.
2. Plan own day-to-day activity within the framework of the agreed research and training programme.
3. Contribute to the planning of research and training activities, reports and publications etc usually 1-6 months in advance.

### 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 with research colleagues and support staff on routine matters.
2. Make internal and external contacts to develop knowledge and understanding and form relationships for future collaboration.
3. Attend and contribute to relevant meetings.
4. Contribute to the School and project outreach programmes by establishing links with local community groups, industries etc.

### ESSENTIAL CRITERIA:

1. 1st class or 2.1 Honours Degree or equivalent in a biological science other related discipline.
2. Demonstrable knowledge of molecular and Omic approaches for microbial community characterisation.
3. Understanding of microbial ecophysiology and geochemical interactions.
4. Ability to plan a project and deliver it to agreed timelines and ability to work with minimum supervision as well as part of a team.

5. Practical experience in molecular microbial ecology approaches, use of bioinformatic pipelines, data analysis and visualization skills for metagenomic and biogeochemical datasets and statistical analysis platforms (R, Matlab etc).
6. Ability to interact with research colleagues and support staff.
7. Ability to analyse and communicate effectively.
8. Ability to work well within a team and liaise with industry representatives as part of the Impact-related knowledge transfer.
9. Demonstrable intellectual ability.
10. Be Willing and able to spend time on secondments with the project partners.

**DESIRABLE CRITERIA:**

1. Already holds or close to achieving a PhD degree in a relevant research area to the project.
2. Specific experience and understanding of the soil sampling / geoscience / geophysics.
3. Practical experience of biogeochemistry and modelling approaches.
4. Ability to generate innovative ideas that contribute to excellence in learning.
5. Willingness to assist in undergraduate supervision and teaching.