



## Candidate Information

<b>Position:</b>	Research Fellow
<b>School/Department:</b>	Biological Sciences
<b>Reference:</b>	23/111013
<b>Closing Date:</b>	Monday 26 June 2023
<b>Salary:</b>	£36,333 per annum
<b>Anticipated Interview Date:</b>	Monday 10 July 2023
<b>Duration:</b>	Fixed term for 39 months or until 30 November 2026, whichever is sooner

### JOB PURPOSE:

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

### MAJOR DUTIES:

1. Conduct inter-disciplinary research in the area of environmental and molecular microbiology to study the role of nutrient imbalance on climate active trace gas cycling in freshwater lakes.
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. Keep up to date with the technical literature including academic papers, journals and textbooks to keep abreast with the state-of-the-art in the project topical area.
5. Undertake work visits with project partners in the University of Warwick and Centre for Ecology and Hydrology (Lancaster) as required.
6. Carry out any other duties designated by a line manager and which fall within the general ambit of the post.

### ESSENTIAL CRITERIA:

1. Have or about to obtain a PhD in Microbiology/Biochemistry and other related discipline.
2. 3 years relevant research experience to include:
  - Experience in growing Methanotrophs and/or Cyanobacteria, and knowledge on one-carbon metabolism
  - Demonstrated experience in performing physiological/biochemical assays and gene manipulation techniques
  - Experience in geochemical tools for characterisation of environmental samples
  - Practical experience in molecular microbial ecology approaches such as stable isotope probing, functional metagenomics for novel enzyme characterisation and omic data analysis using bioinformatic pipelines.
3. Data analysis and visualization skills for metagenomic and biogeochemical datasets and statistical analysis platforms (R, Matlab etc).
4. Ability to interact with research colleagues, collaborators and support staff.
5. Ability to analyse and communicate effectively.
6. Ability to work well independently, within a team and liaise with collaborators/stakeholders as part of the impact-related knowledge transfer.
7. Demonstrable intellectual ability.
8. Be willing and able to spend time on visits with the project partners i.e University of Warwick and Centre for Ecology and Hydrology (Lancaster). This will involve at least one trip of 1 month duration for training and subsequent visits to carry out experiments.

### DESIRABLE CRITERIA:

1. Experience in biogeochemical modelling approaches.
2. Ability to generate innovative ideas that contribute to excellence in learning. Willingness to assist in undergraduate supervision and teaching.