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| Last updated: | 12/04/22 |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow** |
| Standard Occupation Code: (UKVI SOC CODE) | 2119 - Natural and social science professionals |
| School/Department: | Geography and Environmental Science |
| Faculty: | Environmental and Life Science |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway |
| Posts responsible to: | Prof. Pete Langdon |
| Posts responsible for: |  |
| Post base: | Office-based/Non Office-based (see job hazard analysis) |

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| Job purpose |
| To undertake research in accordance with the specified research project under the supervision of the award holders (Prof. Pete Langdon – Southampton, Prof. Helen Bennion - UCL) and liaise with the second postdoc, and modelling team working under Prof. Simon Willcock. To undertake writing of publications, some project management and engagement activities. |

| Key accountabilities/primary responsibilities | % Time |
| --- | --- |
|  | To develop and carry out scientific research on Freshwater Lake Palaeoecology  | 60 % |
|  | Preparation of journal articles for submission to leading peer-reviewed international journals. | 15 % |
|  | Preparation and delivery of papers at key national and international conferences andproject workshops and outreach events. | 10 % |
|  | Carry out administrative tasks associated with wider project  | 5 % |
|  | Collaborate with lake stakeholders across the duration of the project | 5 % |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 5 % |

| Internal and external relationships |
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| The post will report to Prof. Pete Langdon (School of Geography and Environmental Sciences), with additional support from Prof. Helen Bennion (UCL). They will also liaise with Postdoc 2 (modelling) and the lead of this work, Prof. Simon Willcock (Rothamsted). May have additional reporting and liaison responsibilities to external organisations e.g. UKRI.May be asked to serve on a relevant School/Department committee.Collaborators/colleagues in other work areas and institutions.May have an opportunity to contribute more widely to School activities, e.g. teaching, depending on individual aspirations and in conjunction with discussions with line managers.  |

| Special Requirements |
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| To be available to participate in fieldwork as required by the specified research project. To be able to design and undertake laboratory analyses of sediment cores.To be able to analyse multi-proxy datasets for environmental reconstruction.To be able to develop networks with end users in areas allied to the research project.To be able to develop potential routes to achieve research impact through stakeholder engagementTo attend national and international conferences for the purpose of disseminating research results.*Applications for Research Fellow positions will be considered from candidates who are working towards or**nearing completion of a relevant PhD qualification. The title of Research Fellow will be applied upon**successful completion of the PhD. Prior to the qualification being awarded the title of Senior Research**Assistant will be given.* |

**PERSON SPECIFICATION**

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| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge and experience | PhD or equivalent professional qualifications and experience in freshwater palaeoecology.Experience in the preparation of sediment samples for chemical and/or ecological analysis.Detailed understanding and knowledge of freshwater eutrophication processes.Knowledge and experience of using proxy methods to reconstruct past environmental change from lake sediments.  | PhD in palaeolimnology, or a related (sub)discipline.Experience of using one or more of a number of palaeoecological and palaeolimnological techniques, including: chironomids, diatoms, Cladocera, pigments, sedimentary ancient DNA, plant macrofossils, lake sediment geochemistry (note: we will teach the skills the individual does not already possess) Experience of dating recent lake sediments (e.g. Pb-210, Cs-137, and recent markers)Knowledge and experience of research impact.  | CV, Covering letter, references and Interview. |
| Planning and organising | Able to organise own research activities to deadline and quality standards, including fieldwork. |  | CV, Covering letter, references and Interview. |
| Problem solving and initiative | Able to develop understanding of complex problems and apply in-depth knowledge to address them.Able to develop original techniques/methods. | Ability to undertake laboratory work and develop/apply new methods, and to undertake statistical analyses on multi-proxy datasets. | CV, Covering letter, references and Interview. |
| Management and teamwork | Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development.Interest in working across disciplinary areas (freshwater palaeoecology, eutrophication processes, systems-based models) | Happy working with in teams in field, meetings and laboratory contexts. | CV, Covering letter, references and Interview. |
| Communicating and influencing | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience (academic and non-academic sector)Able to present research results at group meetings and conferencesAble to write up research results for publication in relevant peer-viewed journalsWork proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes | Happy communicating with people face-to-face and online to problem solve, present data and receive feedback. | CV, Covering letter, references and Interview. |
| Other skills and behaviours | Understanding of relevant Health & Safety issuesPositive attitude to colleagues and students and awareness of EDI challenges, especially in the geosciences | Confident, collegiate and collaborative, not afraid to give and take constructive criticism or praise. | CV, Covering letter, references and Interview. |
| Special requirements | Able to attend national and international conferences and UK based and overseas fieldwork. | Confident and able to spend time away for focussed periods of training, laboratory work and data capture.Ability to manage and cope with stressful situations under pressure of deadlines or physical activity (field work, presenting, reporting). | CV, Covering letter, references and Interview. |

**JOB HAZARD ANALYSIS**

**Is this an office-based post?**

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| [ ]  Yes | If this post is an office-based job with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete the section below. |
| [x]  No | If this post is not office-based or has some hazards other than routine office (eg: more than use of VDU) please complete the analysis below.Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder. |

## - HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.

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| **ENVIRONMENTAL EXPOSURES** | **Occasionally** (<30% of time) | **Frequently**(30-60% of time) | **Constantly**(> 60% of time) |
| Outside work  | Y |  |  |
| Extremes of temperature (eg: fridge/ furnace) | Y |  |  |
| ## Potential for exposure to body fluids |  |  |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below: | Y |  |  |
| Frequent hand washing |  |  |  |
| Ionising radiation  |  |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** |
| ## Food handling  |  |  |  |
| ## Driving university vehicles(eg: car/van/LGV/PCV)  | Y |  |  |
| ## Use of latex gloves (prohibited unless specific clinical necessity) |  |  |  |
| ## Vibrating tools (eg: strimmers, hammer drill, lawnmowers)  | Y |  |  |
| **PHYSICAL ABILITIES** |
| Load manual handling | Y |  |  |
| Repetitive crouching/kneeling/stooping |  |  |  |
| Repetitive pulling/pushing | Y |  |  |
| Repetitive lifting |  |  |  |
| Standing for prolonged periods | Y |  |  |
| Repetitive climbing (ie: steps, stools, ladders, stairs) |  |  |  |
| Fine motor grips (eg: pipetting) | Y |  |  |
| Gross motor grips |  |  |  |
| Repetitive reaching below shoulder height | Y |  |  |
| Repetitive reaching at shoulder height |  |  |  |
| Repetitive reaching above shoulder height |  |  |  |
| **PSYCHOSOCIAL ISSUES** |
| Face to face contact with public | Y |  |  |
| Lone working | Y |  |  |
| ## Shift work/night work/on call duties  |  |  |  |