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**Job Description**

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| **Job title** | Research Associate |
| **Department/School** | Architecture and Civil Engineering (ACE) |
| **Job family** | Education and Research |
| **Grade** | 7 |
| **Reporting to** | Dr Lee Bryant (Uni of Bath PI) |
| **Responsible for** | Project-related research duties, coordination of fieldwork logistics, co-supervision of undergraduate students  |
| **Location** | University of Bath premises  |

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| **Background and context** |
| This Research Associate position will focus on investigating the effectiveness of engineered aeration/mixing in drinking-water supply reservoirs. This research, which is funded by UK drinking water utilities, builds on a combination of laboratory and field work, including site visits to multiple reservoirs across the UK, to evaluate the success of aeration systems for improving water quality. This position, which is part of a larger, multidisciplinary research team, focuses on sediment sampling and analysis (e.g., chemical, physical and voltammetric) to assess sediment transport and chemical dynamics.  |

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| **Job purpose** |
| To provide water quality research expertise and undertake related fieldwork and experimental research with Dr Bryant and the research team for the water-utility-funded research project ‘When & How To Mix.’ |

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| **Main duties and responsibilities**  |
|  | Responsible to the PI/CI for (as appropriate to discipline):  |
| **1** | Conduct individual and/or collaborative research projects. Contribute to the design and execution of the project, e.g., timetabling and meeting project milestones; organising fieldwork and maintain equipment, participating in regular discussions with collaborative partners. Generate, collect and analyse existing data related to the project using qualitative and/or quantitative techniques. |
| **2** | Writing up results of research and contributing to the publication of results in high-quality peer-reviewed academic literature. |
| **3** | Disseminating results of research project as appropriate to the discipline through activities such as* national research visits
* conference presentations
* public engagement activities
 |
| **4** | Participate in departmental/group meetings and prepare and deliver presentations/seminars to project team, internal and external stakeholders or funders. |
| **5** | Assist with the supervision of postgraduate students and undergraduate project students and the assessment of student knowledge. |
| **6** | Continually update knowledge and understanding in field or specialism to inform research activity. |
| **7** | Identify sources of funding and provide assistance with preparing bids to funding bodies. Develop ability to secure own funding, e.g., travel grants.  |
| **8** | Contribute to the development of research objectives and proposals for own or joint research projects, with assistance of a mentor, if required. |
| **9** | Disseminate knowledge of research advances to inform departmental teaching. |
|  | You will from time to time be required to undertake other duties of a similar nature as reasonably required by your line manager. You are required to follow all University policies and procedures at all times and take account of University guidance.  |

**![logo-uob-resize[1]]() Person Specification**

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| **Criteria** | **Essential** | **Desirable** |
| **Qualifications** |  |  |
| A PhD[[1]](#endnote-1) degree in subject area of direct relevance for the project, or equivalent significant relevant experience and professional qualification | √ |  |
| **Experience/Knowledge** |  |  |
| Post doctoral experience |  | √ |
| Demonstrated significant depth and breadth of specialist knowledge of subject matter to contribute to research programmes and to the development of departmental research activities | √ |  |
| Demonstrated awareness of latest developments in the field of research and in research design | √ |  |
| Demonstrated potential to publish in high quality, peer reviewed journals | √ |  |
| **Skills** |  |  |
| Ability to prepare research proposals, to conduct individual research work and to disseminate results |  | √ |
| Ability to organise and prioritise own workload to meet required deadlines | √ |  |
| Ability to write research reports and to effectively disseminate outcomes | √ |  |
| Excellent oral, interpersonal and written communication skills | √ |  |
| Proficiency in appropriate techniques (as appropriate to discipline) | √ |  |
| Proficiency in IT skills (as appropriate to discipline) | √ |  |
| **Attributes** |   |  |
| Commitment to working within professional and ethical codes of conduct | √ |  |
| Innovation and developing creative solutions  | √ |  |
| Commitment to excellence in research | √ |  |
| Enthusiasm and self-motivation | √ |  |
| Tenacity – working to achieve own and team objectives and to overcome obstacles  | √ |  |
| Ability to be an effective team worker | √ |  |
| Commitment to safe working practices | √ |  |

1. *If you have not yet been awarded your PhD, you will have submitted your thesis and we would expect you to receive confirmation of your PhD award within 6 months of appointment.*  [↑](#endnote-ref-1)