

**Job Description**

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| **Job title** | Research Associate |
| **Department/School** | Mathematical Sciences |
| **Job family** | Education and Research |
| **Grade** | 7 |
| **Reporting to** | Professor Ivan Graham (PI) |
| **Responsible for** | This role involves no management of other staff |
| **Location** | University of Bath premises |

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| **Background and context** |
| This post is one of two Research Associate positions associated with the EPSRC-funded project: “Fast solvers for frequency domain wave scattering problems and applications”. The other post will be appointed at Strathclyde University |

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| **Job purpose** |
| To provide subject-specific research expertise and undertake specific research work to the EPSRC-funded project “Fast solvers for frequency domain wave scattering problems and applications”. |

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| **Main duties and responsibilities** | |
|  | Responsible to the PI and Cis for |
| **1** | Conducting individual and/or collaborative research projects. |
| **2** | Writing up results of research and contributing to publishing of results in high-quality peer-reviewed academic literature. |
| **3** | Project management: e.g. timetabling and meeting project milestones; participating in regular discussions with collaborative partners. |
| **4** | Disseminating the results of the project by presentations at workshops and conferences. |
| **5** | Participating regularly in group meetings and prepare and deliver presentations to project team, internal and external stakeholders or funders. |
| **6** | Continually updating knowledge and understanding in field or specialism to inform research activity. |
| **7** | Developing research objectives and proposals for own or joint research, with assistance of a mentor if required. |

 **Person Specification**

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| **Criteria** | **Essential** | **Desirable** |
| **Qualifications** |  |  |
| A PhD degree in subject area of direct relevance for the project, or an equivalent professional qualification (and significant relevant experience where applicable). | √ |  |
| **Experience/Knowledge** |  |  |
| Post doctoral experience |  | √ |
| Demonstrated significant depth and breadth of specialist knowledge of subject matter to contribute to research programme. | √ |  |
| Experience in numerical analysis of PDEs | √ |  |
| Experience in large-scale linear algebra problems |  | √ |
| Experience in frequency domain wave problems and relevant applications |  | √ |
| Demonstrated awareness of latest developments in the field of research |  | √ |
| Demonstrated potential to publish in high quality, peer reviewed journals | √ |  |
| **Skills** |  |  |
| Ability to conduct individual research work and to disseminate results | √ |  |
| Ability to organise and prioritise own workload | √ |  |
| Ability to write research reports and to effectively disseminate outcomes | √ |  |
| Excellent oral, interpersonal and written communication skills | √ |  |
| **Attributes** |  |  |
| Innovation and developing creative solutions | √ |  |
| Enthusiasm and self-motivation. | √ |  |
| Organisation – able to plan and deliver work to meet required deadlines | √ |  |
| Tenacity – working to achieve own and team objectives and to overcome obstacles | √ |  |
| Ability to be an effective team worker | √ |  |
| Willingness to participate in a project involving researchers from different areas of mathematics |  | √ |