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**Job Description**

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| **Job title** | Research Associate |
| **Department/School** | Mathmatical Sciences |
| **Job family** | Education and Research |
| **Grade** | 7 |
| **Reporting to** | Johannes Nordström |
| **Responsible for** | Co-supervision of doctoral or undergraduate students may be required. |
| **Location** | University of Bath premises  |

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| **Background and context** |
| The position is funded as part of the “Simons Collaboration on Special Holonomy in Geometry, Analysis and Physics”. The Collaboration consists of 10 Principal Investigators around the world and a larger group of academics, postdocs and PhD students, who will work together on the study of Riemannian manifolds with special holonomy, particularly Calabi-Yau manifolds and 7- and 8-manifolds with holonomy G2 and Spin(7), their calibrated submanifolds, and gauge theory and instantons on them, and their connections with String and M-theory. The Collaboration website is at <https://sites.duke.edu/scshgap/>. |

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| **Job purpose** |
| The RA will work directly with Johannes Nordström on projects in the broad areas of the Collaboration, and within Dr Nordström’s research interests. |

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| **Main duties and responsibilities**  |
| Responsible to the PI for  |
| **1** | Conduct 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** | Disseminating results of project e.g. by presentations at conferences, overseas research visits, public engagement activities.  |
| **4** | Assist with the supervision of graduate students and undergraduate project. |
| **5** | Continually update knowledge and understanding in field or specialism to inform research activity. |
| **6** | Identify sources of funding and provide assistance with preparing bids to funding bodies. Contribute to securing of own funding e.g. travel grants.  |
| **7** | Develop research objectives and proposals for own or joint research, with assistance of a mentor if required. |

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**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 programmes and to the development of departmental research activities. | √ |  |
| Demonstrated awareness of latest developments in the field of research | √ |  |
| 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 | √ |  |
| Ability to write research reports and to effectively disseminate outcomes | √ |  |
| Excellent oral, interpersonal and written communication skills | √ |  |
| Proficiency in IT skills (as appropriate to discipline) | √ |  |
| **Attributes** |   |  |
| Commitment to working within professional and ethical codes of conduct | √ |  |
| 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 | √ |  |