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**Job Description**

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| **Job title** | Post-Doctoral Research Associate |
| **Department/School** | Biology and Biochemistry |
| **Job family** | Education and Research |
| **Grade** | 7 |
| **Reporting to** | Principal Investigator (PI) or Co-Investigator (CI) |
| **Responsible for** | There may be a requirement for:day to day supervision of other staff e.g. technical staff or, co-supervision of doctoral or undergraduate students  |
| **Location** | University of Bath  |

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| **Background and context** |
| **Alzheimer’s Society funded Research Associate*****Neuroprotective Polyphenols in Alzheimer’s Disease*****Available 2nd September 2019**Dr Rob William’s lab at the University of Bath is looking for an enthusiastic and highly motivated individual who is interested in the molecular mechanisms of neurodegeneration and specifically in exploring the neuroprotective potential of natural polyphenols in Alzheimer’s Disease. The position will involve testing polyphenol metabolites against Amyloid β and Tau toxicity in different cell platforms including primary neurons and microglia, human stem cells and neuroblastoma cell lines. The work will make use of novel gene reporters, high content and live cell imaging, proteomics and RNA sequencing. Biophysical aspects will be undertaken in collaboration with Professor Jody Mason’s group. This is an exciting project in an important therapeutic area, for which training and support will be given throughout, including regular meetings between team members. This 30 month Alzheimer’s Society funded postdoctoral position is available from 2nd September 2019 and applicants must be highly motivated and hold a PhD in a relevant science subject such as Biochemistry, Neuroscience or Molecular Biology. Candidates should have experience in molecular cellular neuroscience, mammalian cell culture, cloning and cell imaging. Knowledge of protein biochemistry and or the innate immune system would be an advantage. For more information or informal enquiries please contact Dr. Rob Williams: r.j.williams@bath.ac.uk +44 1225 386553. https://researchportal.bath.ac.uk/en/persons/robert-williamsEssential criteria for the role are as follows:* A PhD in Biochemistry or a related discipline (e.g. Neuroscience, Molecular Cell Biology)
* A strong research track record in molecular neurodegeneration
* Capability and creativity in experimental design.
* A high level of experience in molecular cell biology.
* The ability to co-ordinate, plan and execute research and routine studies to a high standard.
* Commitment to working within professional and ethical codes of conduct
* Ability to organise and prioritise own workload to meet required deadlines

Please send informal enquiries to Dr Robert Williams: r.j.williams@bath.ac.uk https://researchportal.bath.ac.uk/en/persons/robert-williams |

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| **Job purpose** |
| To provide subject-specific research expertise and undertake specific research work to a Principal Investigator (PI) and their research team for a specified grant/project.  |

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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; 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* 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 in a subject area of direct relevance for the project (e.g. Biochemistry, Molecular Biology, Neuroscience) and relevant laboratory experience  | 🗸 |  |
| **Experience/Knowledge** |  |  |
| Research experience in Molecular Neuroscience/ Molecular Neurodegeneration | 🗸 |  |
| Experience in Mammalian Cell Culture | 🗸 |  |
| Experience in Molecular Biology, Cellular Biochemistry and Microscopy | 🗸 |  |
| Experience in Stem Cell Biology and/or knowledge of the Innate Immune System |  | 🗸 |
| Demonstrated awareness of latest developments in the field of neurodegenerative disease and Alzheimer’s drug discovery | 🗸 |  |
| Demonstrated potential to publish in high quality, peer reviewed journals | 🗸 |  |
| **Skills** |  |  |
| Ability to organise and prioritise own workload to meet required deadlines | 🗸 |  |
| Ability to maintain accurate written records 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 | 🗸 |  |