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**Faculty of Technology**

**Institute of Cosmology and Gravitation**

**Research Software Engineer**

**ZZ007162**

**Information for Candidates**

**THE POST**

Please see the attached job description and person specification.

**TERMS OF APPOINTMENT**

Full-time

Fixed term

Salary is in the range from £36,382 to £39,739 and progress to the top of the scale is by annual increments payable on 1 September each year. Salary is paid into a bank or building society monthly in arrears.

Working hours are normally from 8.30 a.m. to 5.15 p.m. Monday to Thursday and 8.30 a.m. to 4.15 p.m. Friday with one hour and ten minutes for lunch. As this post is research based, working hours will vary depending on the needs of the project so a flexible approach is required. Specific working hours will be agreed once an appointment has been made. Overtime is not normally payable but time off in lieu may be given.

Annual leave entitlement is 35 working days in a full leave year. The leave year commences on 1 October and staff starting and leaving during that period accrue leave on a pro-rata basis. In addition, the University is normally closed from Christmas Eve until New Year’s Day inclusive and on bank holidays.

The Appointee will be entitled to join the Local Government Pension Scheme. The scheme's provisions include a final salary based, index-linked pension with an option to exchange some pension for a lump sum on retirement together with dependants’ benefits. Contributions by the employee are subject to tax relief.

There is a probationary period of six months during which new staff are expected to demonstrate their suitability for the post.

It is a condition of the appointment for the proper performance of the duties of the post that the appointee will take up residence at a location such that they are able to fulfil the full range of their contractual duties. This residential requirement will be expected to be fulfilled within twelve months of taking up the appointment. The University has a scheme of financial assistance towards the cost of relocation, details of which can be found on the University website:

<http://www.port.ac.uk/departments/services/humanresources/recruitmentandselection/informationforapplicants/removalandseparationguidelines>

There is a comprehensive sickness and maternity benefits scheme.

**All interview applicants will be required to bring their passport or full birth certificate and any other 'Right to Work' information to interview where it will be copied and verified.** The successful applicant will not be able to start work until their right to work documentation has been verified.

Please note if you are the successful candidate once the verbal offer of employment has been made and accepted, references will be immediately requested. It is the University’s policy that all employment covering the past three years is referenced. A minimum of two references is required to cover this three-year period of employment or study (where there has been no employment). One of your referees must be your current or most recent employer.

The successful candidate will need to bring documentary evidence of their qualifications to Human Resources on taking up their appointment.

If the position has a requirement for Disclosure and Barring Service check (DBS) or Non-Police Personnel Vetting (NPPV), this will be stated in the advert. Further information will be provided once the selection process has been completed.

All applications must be submitted by 23:59 (UK time) on the closing date published.



**UNIVERSITY OF PORTSMOUTH – RECRUITMENT PAPERWORK**

1. **JOB DESCRIPTION**

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| --- | --- |
| **Job Title:** | Research Software Engineer |
| **Grade:** | 7 |
| **Faculty/Centre:** | Faculty of Technology |
| **Department/Service:**  **Location:** | Institute of Cosmology and Gravitation  Dennis Sciama Building |
| **Position Reference No:** | ZZ007162 |
| **Responsible to:** | Institute of Cosmology and Gravitation Director or Nominee |
| **Responsible for:** | None |
| **Effective date of job description:** | September 2021 |

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| **Purpose of Job:** |
| To support software development for a variety of research projects in the ICG research portfolio and with other funded collaborations. To assist researchers and students in building excellent quality research software which is maintainable and reusable. |

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| **Key Responsibilities:** |
| * To contribute to high-quality, world-leading research in cosmology, gravitation, and astrophysics. * Contribute to departmental/joint research and impact objectives and/or proposals. * Develop software and infrastructure to support ICG research projects. * Support ICG members, University and external collaborators by developing excellent research software and enabling good software engineering practices. * Collaborate with others to ensure that research and/or knowledge exchange projects are delivered effectively and to time. * Participate in and develop networks for exchange of information and collaboration with colleagues. * Attend and contribute to various meetings as required. * Any other duties as required by the ICG Director |

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| **Working Relationships:** |
| ICG academic and support staff  ICG Directors  UK and international collaborators |

1. **PERSON SPECIFICATION**

|  |  |  |  |
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| **No** | **Attributes** | **Rating** | **Source** |
| **1.** | **Specific Knowledge & Experience** |  |  |
| 1.1 | Excellent ability in research software development | E | AF, S |
| 1.2 | Strong experience with Python and/or C/C++ | E | AF, S |
| 1.3 | Single-author or leading-author publications with strong computing or software components | D | AF |
| 1.4 | Demonstrated knowledge of software development best practices | D | AF, S |
| 1.5 | Record of research with impact outside higher education | D | AF, S |
| 1.6 | Knowledge and/or experience in research innovation and impact (knowledge exchange, consultancy, etc) | D | AF, S |
| 1.7 | Experience of teaching or equivalent presentation of technical material | D | AF, S |
| **2.** | **Skills & Abilities** |  |  |
| 2.1 | Experience with research computing (e.g. HPC/HTC, software testing and packaging) | E | AF, S |
| 2.2 | Ability to work in a team | E | AF, S |
| 2.3 | Ability to communicate effectively in English verbally and in writing | E | AF, S |
| 2.4 | Ability to work without close supervision | E | AF, S |
| 2.5 | Organisational and administrative ability | E | AF, S |
| 2.6 | Knowledge of big data and machine learning methods | D | AF, S |
| 2.7 | Ability to co-supervise research students | D | AF, S |
| 2.8 | Ability to work as part of a large scientific collaboration | D | AF, S |
| 2.9 | Ability to engage with knowledge exchange and innovation stakeholders | D | AF, S |
| **3.** | **Qualifications, Education & Training** |  |  |
| 3.1 | A PhD in a relevant discipline (e.g. physics, mathematics, computer science) | E | AF |
| 3.2 | Participation in computing conferences or training | D | AF |
| **4.** | **Other Requirements** |  |  |
| 4.1 | High integrity and professional approach | E | AF, S |
| 4.2 | Positive attitude towards essential administrative tasks | E | AF, S |
| 4.3 | Ability to work to tight deadlines | E | AF, S |
| 4.4 | Creative and self-motivated | E | AF, S |
| 4.5 | Willing to travel in the UK and overseas | E | AF, S |
| 4.6 | Enthusiastic about public engagement, impact and innovation | D | AF, S |

**Legend**

Rating of attribute: E = essential; D = desirable  
Source of evidence: AF = Application Form; S = Selection Programme (including Interview, Test, Presentation)

**JOB HAZARD IDENTIFICATION FORM**

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| --- | --- | --- | --- |
| **Please tick box(s) if any of the below are likely to be encountered in this role. This is in order to identify potential job related hazards and minimise associated health effects as far as possible. Please use the** [Job Hazard Information](http://www.port.ac.uk/departments/services/humanresources/occupationalhealthservice/jobhazardinformation/filetodownload,164407,en.doc) **document in order to do this and give details in the free text space provided.** | | | |
| 1. International travel/Fieldwork | x | 13. Substances to which COSHH regulations apply (including microorganisms, animal allergens, wood dust, chemicals, skin sensitizers and irritants, welding fume) |  |
| 1. Manual Handling (of loads/people) |  | 14. Working at height |  |
| 1. Human tissue/body fluids (e.g. Healthcare settings, First Aiders, Nursery workers, Laboratory workers) |  | 15. Working with sewage, drains, river or canal water |  |
| 1. Genetically Modified Organisms |  | 16. Confined spaces |  |
| 1. Noise > 80 DbA |  | 17. Vibrating tools |  |
| 1. Night Working   (between 2200 hrs and 0600 hrs) |  | 18. Diving |  |
| 1. Display screen equipment | x | 19. Compressed gases |  |
| 1. Repetitive tasks (e.g. pipette use etc) |  | 20. Small print/colour coding |  |
| 1. Ionising radiation/non-ionising radiation/lasers/UV radiation | | 21. Soil/bio-aerosols |  |
| 10. Asbestos and or lead | | 22. Nanomaterials | |
| 11. Driving on University business: mini- bus (over 9 seats), van, bus, forklift truck, drones only) | | 23. Workplace stressors (e.g. workload, relationships, job role etc)  x | |
| 12. Food handling | | 24. Other (please specify) | |

**Completed by Line Manager/Supervisor:**

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| **Name (block capitals)** | Professor Adam Amara |
| **Date** | September 2021 |
| **Extension number** | 3101 |

Managers should use this form and the information contained in it during induction of new staff to identify any training needs or requirement for referral to Occupational Health (OH).

Should any of this associated information be unavailable please contact OH (Tel: 023 9284 3187) so that appropriate advice can be given.