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**Faculty of Technology**

**Institute of Cosmology and Gravitation**

**RESEARCH FELLOWS IN GRAVITATIONAL-WAVE ASTROPHYSICS x 2**

**ZZ006501**

**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 £35,845 - £39,152 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 Fellow in Gravitational-Wave Astrophysics |
| **Grade:** | 7 |
| **Faculty/Centre:** | Technology |
| **Department/Service:****Location:** | Institute of Cosmology and GravitationDennis Sciama Building |
| **Position Reference No:** | ZZ006501 ZZ006502 |
| **Responsible to:** | Dr Laura Nuttall |
| **Responsible for:** | N/A |
| **Effective date of job description:** | November 2020 |

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| **Purpose of Job:** |
| To undertake research at an international level in gravitational-wave astrophysics within the LIGO Scientific Collaboration, LISA Consortium and/or the GOTO Consortium. To work autonomously, and in collaboration with other researchers at the University of Portsmouth and under the guidance of the project leaders, to carry out research projects in gravitational-wave astrophysics. Responsible for regularly managing elements of the project in line with the project terms of reference. |

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| **Key Responsibilities:** |
| 1. To help manage and deliver the goals of the UKRI Future Leaders Fellowship project “Multi-band, Multi-messenger Astrophysics with LIGO, LISA and GOTO”.
2. To publish research work in refereed journals and to assist in disseminating the results on the internet, and at seminars, conferences or other such activities.
3. To participate fully in the research and innovation (e.g., connections to industry) activities of the funding grant and the Institute, including seminars and discussion meetings.
4. To participate, and represent the Institute in the LIGO Scientific Collaboration, LISA Consortium and/or the GOTO Consortium. Working collaboratively with scientists globally on joint work packages.
5. Provide academic leadership by coordinating the work of others to ensure that research and/or knowledge exchange projects are delivered effectively and on time.
6. To promote the standing of the Institute and the research area, via research publications, seminar and conference talks, visits and attendance of meetings, public outreach activities.
7. To assist at a limited level (with a maximum of 6 hours per week), when called upon, in the administration, management and teaching (undergraduate tutoring and PhD research lectures) of the Institute.
8. Other relevant duties as required by the line manager or ICG Director
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| **Working Relationships:** |
| ICG academic staff,ICG Directors, other ICG research and support staffCollaborators in external collaborations (LIGO, LISA, GOTO) |

1. **PERSON SPECIFICATION**

|  |  |  |  |
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| **No** | **Attributes** | **Rating** | **Source** |
| **1.** | **Specific Knowledge & Experience** |  |  |
| 1.1 | Excellent research-level knowledge of gravitational-wave astrophysics or related areas  | E | AF, S |
| 1.2 | Experience with data analysis techniques in the context of gravitational-wave astronomy  | D | AF, S |
| 1.3 | Knowledge and experience of Bayesian methods in astronomy | D | AF, S |
| 1.4 | Knowledge of the operation of ground-based gravitational-wave interferometers  | D | AF, S |
| 1.5 | Experience with transient surveys including collection and analysis of data | D | AF, S |
| 1.6 | Experience with gravitational-wave follow-up techniques | D | AF, S |
| 1.7 | A desire to develop / be involved with public engagement and outreach related to gravitational-wave astrophysics  | D | AF, S |
| 1.8 | Refereed journal publications either published or in the process of being published | E | AF, S |
| 1.9 | Single-author or leading-author publications; strong citation impact; talks at international conferences | D | AF, S |
| 1.10 | Experience of mentoring and/or coordinating the work of others | D | AF, S |
| **2.** | **Skills & Abilities** |  |  |
| 2.1 | Excellent skills in numerical and computational analysis and modelling | E | AF, S |
| 2.2 | Excellent skills in developing or contributing to software packages in the python computing language. | D | AF, S |
| 2.3 | Oral and written communication skills | E | AF, S |
| 2.4 | Seminar / conference presentations | E | AF, S |
| 2.5 | Writing papers for publication | E | AF, S |
| **3.**  | **Qualifications, Education & Training** |  |  |
| 3.1 | PhD in Physics, Astrophysics or related STEM subject (awarded, or submitted within 3 months of start) | E | AF, S |
| **4.** | **Other Requirements** |  |  |
| 4.1 | Creative and self-motivated | E | AF, S |
| 4.2 | Able to work autonomously and in a team | E | AF, S |
| 4.3 | Willing to meet deadlines | E | AF, S |
| 4.4 | Willing to travel in the UK and overseas for research | E | AF, S |
| 4.5 | Ability to work in international collaborations | E | AF, S |
| 4.6 | Willing to actively participate in the departmental outreach and public engagement strategy | 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%2C164407%2Cen.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)  |
|  12. Food handling  |  24. Other (please specify)  |

**Completed by Line Manager/Supervisor:**

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| **Name (block capitals)** | Laura Nuttall |
| **Date** | October 2020 |
| **Extension number** | 3138 |

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.