



**Faculty of Technology**

**School of Engineering**

**Senior Research Associate**

**(18 months fixed term contract)**

**ZZ004142**

**Information for Candidates**

**THE POST**

Please see the attached job description and person specification.

**TERMS OF APPOINTMENT**

Salary is in the range from £29,301 to £32,958 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 37 per week and are usually worked between 8.30 am and 5.15 pm Monday to Thursday and between 8.30 am and 4.15 pm on 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.

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.

Under the University’s Insurance Policy we will take up references for candidates called for interview. Your current employer reference must be your current line manager. It is also a requirement of this policy that we take up references to cover the previous three years of your employment or study.

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

To comply with UKVI legislation, non-EEA candidates are only eligible to apply for this post if it has been advertised for a total of 28 days.

If the position has a requirement for Disclosure and Barring Service check (DBS), this will be stated in the advert. The DBS Application Form will be provided once the selection process has been completed.

All applications must be submitted by Midnight (GMT) on the closing date published.

**UNIVERSITY OF PORTSMOUTH – RECRUITMENT PAPERWORK**

1. **JOB DESCRIPTION**

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| **Job Title:** | Senior Research Associate |
| **Grade:** | Up to Gr 6 (SCP 30) |
| **Faculty/Centre:** | Faculty of Technology |
| **Department/Service:**  **Location:** | School of Engineering  Anglesea Building |
| **Position Reference No:** | ZZ004142 |
| **Cost Centre:** | 10882 |
| **Responsible to:** | Dr Sarinova Simanjuntak |
| **Responsible for:** | N/A |
| **Effective date of job description:** | July 2017 |

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| **Purpose of Job:** |
| Working in collaboration with Avonwood Development Ltd and Avanti Communications Ltd on the design and development a smart miniaturised sensor system for detection and monitoring of corrosion/surface damage on wind turbine critical parts. |

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| **Key Responsibilities:** |
| * To involve in defining sensor systems requirements including the requirement for the design, user interface, system performance tests and validation. * To develop a smart miniaturised sensor system for corrosion/surface damage detection and monitoring utilising the flexi-matt PCB sensor and IoT technologies. * To lead the performance tests of the sensor system, including the bench/laboratory tests such as the environment testing (Salt fog, condensed water and UV testing) for verification purposes. * To assist and conduct the pilot (on-site) tests of the sensor system at the partner’s wind turbine installation (overseas location) * To undertake report writing to a professional standard. * To assist in the monitoring of the project (technical aspects) * To engage in the authoring and production of project reporting, marketing literature and the dissemination of results at conferences * To attend and contribute to national/international scale conferences in areas relating to renewable energies, corrosion and sensors/IoT technologies. |

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| **Working Relationships:** |
| The Research Associate (RA) will be employed by the University of Portsmouth, as a member of the School of Engineering. The RA will work closely with the academic team and the industrial partners throughout the project. Key contacts will be:  Dr Sarinova Simanjuntak (Lead Academic, UoP)  Dr Nils Bausch (UoP)  Mr Adrian Nash (Project Manager, Avonwood)  Mr Steven Bysouth (Avonwood)  Mr Joseph Muna (Team leader, Avanti)  Mr Carl Jonsson (Avanti)  The project will be overseen by a Local Management Committee, which will include the Academic Team and the Industrial partners. |

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| http://www.port.ac.uk/images/unilogos/UoPportraitPUR300dpi.jpg |
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| Innovate UK bring together universities and businesses to work together on a development project that is strategically important to the future of an organisation.  This partnership offers:   * Acceleration for your career * A very competitive salary * The opportunity to lead and manage a strategic project * The support of an academic team from the University * The possibility of a permanent post with the company |

1. **PERSON SPECIFICATION**

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| **No** | **Attributes** | **Rating** | **Source** |
| **1.** | **Specific Knowledge & Experience** |  |  |
| 1.1 | Knowledge in electro-chemistry or physics | E | AF,S |
| 1.2 | Knowledge in sensors technology | D | AF,S |
| 1.3 | Knowledge in IoT technology | D | AF, S |
| 1.4 | Experience in setting up and performing corrosion test experiments and test analysis | E | AF,S |
| 1.5 | Experience of software (Excel, Matlab) to solve problems | E | AF,S |
| 1.6 | Experience conducting literature reviews and collection of data from various sources | E | AF,S |
| 1.7 | Experience in the efficient and safe working in the marine/coastal environment | D | AF,S |
| 1.8 | Knowledge of Environmental Issues and key legislations | D | AF,S |
| **2.** | **Skills & Abilities** |  |  |
| 2.1 | Ability to plan, organise and prioritise work | E | AF,S |
| 2.2 | Good communication and interpersonal skills | E | AF,S |
| 2.3 | Good report writing skills | E | AF,S |
| 2.4 | Excellent presentation skills | E | AF,S |
| 2.5 | Work efficiently as a member of a small team and communicate effectively with project partners | E | AF,S |
| 2.6 | Project management skills | D | AF,S |
| **3.** | **Qualifications, Education & Training** |  |  |
| 3.1 | Good (2.1 or above) undergraduate degree in relevant field (Electronics/Chemical Engineering, Chemistry, Physics) | E | AF,S |
| 3.2 | Postgraduate qualification in an appropriate subject area | D | AF,S |
| 3.3 | Corrosion Inspection and monitoring training certificates | D | AF,S |
| **4.** | **Other Requirements** |  |  |
| 4.1 | Ability to motivate and engage others in research | E | AF,S |
| 4.2 | Ability to work on own initiative and as part of a team | E | AF,S |
| 4.3 | Ability to work to deadlines | E | AF,S |
| 4.4 | Willingness to travel in UK and abroad | E | AF,S |
| 4.5 | Willingness to undertake field work for short periods | E | AF,S |

**Legend**

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

**JOB HAZARD IDENTIFICATION FORM**

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| **Please tick box(s) if any of the below are likely to be encountered by the applicant. This is in order to identify potential job related hazards and minimise associated health effects as far as possible. Please use** [**this link**](http://www.port.ac.uk/departments/services/humanresources/occupationalhealthservice/JobHazardInformation/) **for further information which should be considered by managers, employees and job applicants.** | | | |
| 1. International travel/Fieldwork | X | 13. Substances to which COSHH regulations apply (including microorganisms, animal allergens, wood dust, chemicals, skin sensitizers and irritants) | X |
| 1. Manual Handling (of loads/people) | X | 14. Working at height | X |
| 1. Human tissue/body fluids (e.g. Healthcare workers, 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, book sensitization etc) |  | 20. Small print/colour coding |  |
| 1. Ionising radiation/ non-ionising radiation/lasers/UV radiation | | 21. Contaminated soil/bio-aerosols |  |
| 10. Asbestos and lead | | 22. Nano-materials | |
| 11. Driving on University business (mini-bus, van, bus, forklift truck etc) | | 23. Stress Workplace Stressors (e.g. workplace demands, role clarification, relationships etc) | |
| 12. Food handling | | 24. Other (please specify)  Travelling to African nation may require specific vaccination | |

**Completed by Line Manager/Supervisor:**

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| **Name (block capitals)** | Sarinova Simanjuntak |
| **Date** | 11th July 2017 |
| **Extension number** | 2170 |

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.