

**Job Description: Research Assistant Algal Research**

<b>Faculty:</b>	<b>Faculty of Science and Engineering</b>
<b>Department/Subject:</b>	<b>Biological Sciences</b>
<b>Salary:</b>	<b>Grade 7: £34,610-£38,784 pro rata per annum together with USS pension benefits</b>
<b>Hours of work:</b>	<b>Full time</b>
<b>Number of positions:</b>	<b>1</b>
<b>Contract:</b>	<b>This is a fixed term position from 01/10/26-31/01/2027</b>
<b>Location:</b>	<b>This position will be based at the Singleton Campus</b>

<b>Main Duties</b>	<ol style="list-style-type: none"> <li>1. Undertake research activities associated with the project "Accelerating Commercialisation Readiness of Phycobiliprotein Production in <i>Arthrospira platensis</i> Using High-Intensity LED Pigment Enhancement Set Up".</li> <li>2. Cultivate, maintain, and monitor microalgal and cyanobacterial cultures under laboratory and pilot, industrial scale conditions.</li> <li>3. Operate and maintain photobioreactor systems and associated laboratory equipment.</li> <li>4. Conduct harvesting, extraction, purification, and analysis of phycobiliproteins and other high-value compounds.</li> </ol>
<b>General Duties</b>	<ol style="list-style-type: none"> <li>5. Pro-actively contribute to and conduct research, including gather, prepare and analyse data, generate original ideas and present results.</li> <li>6. Prepare reports, draft patents and papers describing the results of the research, both confidential and for publication.</li> <li>7. Be self-motivated, apply and use their initiative, aiming to determine suitable ways to tackle challenges and seeking guidance when needed.</li> <li>8. Interact positively and professionally with other collaborators and partners within the Faculty and elsewhere in the University and beyond as appropriate such as in industry/commerce, public organisations, hospitals and academia.</li> <li>9. Contribute to Faculty organisational matters in order to help it run smoothly and to help raise its external research profile.</li> <li>10. Keep informed of developments in the field in technical, specific and general terms and their wider implication for the discipline area, commercial applications and the knowledge economy.</li> <li>11. When requested act as a representative or member of committees, using the opportunity to extend their own professional experience.</li> <li>12. Demonstrate and evidence own professional development, identifying development needs with reference to the Vitae Researcher Development Framework, particularly with regard to probation, PDR and participation in training events.</li> <li>13. Maintain and enhance links with the professional institutions and other related bodies.</li> <li>14. Observe best-practice protocols in maintenance and retention of research records as indicated by HEI and Research Councils records management guidance. This includes ensuring project log-book records are deposited with the University/Principal Investigator on completion of the work.</li> <li>15. To promote equality and diversity in working practices and maintain positive working relationships.</li> <li>16. To conduct the job role and all activities in accordance with safety, health and sustainability policies and management systems, in order to reduce risks and impacts arising from the work activity.</li> <li>17. To ensure that risk management is an integral part of any decision making process, by ensuring compliance with the University's Risk Management Policy.</li> <li>18. Any other duties as agreed by the Faculty / Directorate / Service Area.</li> </ol>



<b>Person Specification</b>	<p><b>Essential criteria:</b></p> <ol style="list-style-type: none"><li>1. A degree (BSc or MSc) in Biotechnology, Biological Sciences, Microbiology, Biochemistry, Chemistry, Biochemical engineering, or a closely related subject, or equivalent relevant experience.</li><li>2. Evidence of the ability to actively engage in and contribute to writing and publishing research papers, particularly for refereed journals.</li><li>3. A demonstrable ability to conduct research in line with the objectives of the project.</li><li>4. Evidence of planning skills to contribute to the research project.</li><li>5. Experience in cultivation and maintenance of microalgae, cyanobacteria, or other microbial cultures.</li><li>6. Experience in operating laboratory-scale or pilot-scale bioreactors and photobioreactors.</li><li>7. Knowledge of algal biomass harvesting, concentration, extraction, and purification techniques.</li><li>8. Experience with analytical methods for biomass characterisation, pigment quantification, protein analysis, or related biochemical assays.</li><li>9. Ability to collect, analyse, and interpret experimental data and present findings in technical reports.</li><li>10. Experience working in a multidisciplinary research environment and collaborating with external partners.</li><li>11. A commitment to continuous professional development</li></ol> <p><b>Desirable Criteria</b></p> <ol style="list-style-type: none"><li>12. A PhD (completed or near completion) in Algal Biotechnology, Biotechnology, Microbiology, Biochemistry, Biological Sciences, Bioprocess Engineering, or a closely related discipline.</li><li>13. Additional specialist training in algal cultivation, downstream bioprocessing, analytical chemistry, or industrial biotechnology would be advantageous.</li><li>14. Evidence of scientific publications, conference presentations, or industry-focused research outputs related to biotechnology or algal research is desirable.</li></ol>
<b>Welsh Language Level</b>	<p>Level 1 – ‘a little’ - pronounce Welsh words. Able to answer the phone in Welsh (good morning / afternoon). Able to use very basic every-day words and phrases (thank you, please etc.). Level 1 can be reached by completing a one-hour training course.</p> <p>For more information about the Welsh Language Levels please refer to the Welsh Language Skills Assessment web page, which is available <a href="#">here</a>.</p>

