

Job Description: Data Scientist

Faculty:	Faculty of Medicine, Health and Life Sciences
Department/Subject:	Population Data Science
Salary:	Grade 7: £34,132 to £38,249 per annum together with USS pension benefits
Hours of work:	Full Time (35 hours per week)
Number of positions:	1
Contract:	This is a fixed term position until 31 st March 2027
Location:	This position will be based at the Singleton Campus

Main Duties	<p>This position is to support Swansea University's role within the Dementias Platform UK (DPUK) collaboration, a £53 million pound public-private Medical Research Council funded endeavour to create a wide reaching and innovative dementias research facility, incorporating different research disciplines from stem-cell research to data analysis. DPUK is a world leading resource for person focussed dementias research designed to fast-track scientific understanding, treatments and the prevention of the disease.</p> <p>The primary purpose of this role is to actively support the advancement of capabilities of the DPUK Data Portal by championing the development and application of synthetic data. You will work closely with our partners and the wider team to build robust synthetic data tools and pipelines that enable secure data research.</p> <p>A key focus of this position is to work on developing tools and demonstrating the real-world value of synthetic data within data research and secure environments. As part of this wider impact, you will collaborate with the UK Synthetic Data Community Group project to help further governance, standards, and tools for synthetic data. You will also develop analytical case studies that highlight the utility of different types of synthetic data, work with colleagues to create workshop materials and resources, and assist in writing and disseminating research reports and findings to the wider scientific community.</p> <ol style="list-style-type: none"> 1. Pipeline Development: Design, build, and maintain synthetic data pipelines and datasets. 2. Demonstrating Real-World Value: Showcasing the practical application of synthetic data within TREs through case studies that highlight the utility of synthetic data in different use cases. 3. Shaping National Standards: Working with the UK Synthetic Data Community Group project to help further governance frameworks, best practice standards, and shared tools for synthetic data. 4. Coordinating with colleagues to create workshop materials, training resources and guides to enable the wider uptake of synthetic data across the data research community. 5. Disseminating Findings: Writing up research findings, producing technical reports, and showcasing outcomes with stakeholders and the wider scientific community. 6. Working closely with partners and wider projects to build robust synthetic data tools, datasets, and pipelines that enable secure, federated research.
Main Duties	<ol style="list-style-type: none"> 7. Pro-actively contribute to and conduct research, including gather, prepare and analyse data, generate original ideas and present results. 8. Prepare reports, draft patents and papers describing the results of the research, both confidential and for publication. 9. Be self-motivated, apply and use their initiative, aiming to determine suitable ways to tackle challenges and seeking guidance when needed. 10. 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, public organisations, and academia.



	<ol style="list-style-type: none">11. Contribute to Faculty organisational matters in order to help it run smoothly and to help raise its external research profile.12. 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.13. When requested act as a representative or member of committees, using the opportunity to extend their own professional experience.14. 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.15. Maintain and enhance links with the professional institutions and other related bodies.16. 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.
General Duties	<ol style="list-style-type: none">17. To promote equality and diversity in working practices and maintain positive working relationships.18. 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.19. To ensure that risk management is an integral part of any decision making process, by ensuring compliance with the University's Risk Management Policy.20. Any other duties as agreed by the Faculty / Directorate / Service Area.
Person Specification	<p>Essential criteria:</p> <ol style="list-style-type: none">1. A Degree in Computer Science/Data Science or equivalent2. Evidence of the ability to actively engage in and contribute to writing and publishing research papers, particularly for refereed journals.3. A demonstrable ability to conduct research in line with the objectives of the project.4. Evidence of planning skills to contribute to the research project.5. Strong proficiency in programming languages such as Python6. Proven experience in data science, artificial intelligence, and statistical methodologies7. Expertise in working with big data and developing AI models8. Solid understanding of data privacy and security regulations9. Experience of developing positive stakeholder relationships.10. Experience of working independently using own initiative.11. Demonstrable experience in writing and producing clear, comprehensive reports tailored to both technical and non-technical stakeholders.12. A commitment to continuous professional development <p>Desirable Criteria</p> <ol style="list-style-type: none">13. Experience in developing Python packages14. Experience in generating or evaluating synthetic data15. Prior experience working with large-scale longitudinal cohort datasets
Welsh Language Level	<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 here.</p>
Additional Information	Informal enquiries: Lewis Hotchkiss, lewis.hotchkiss@chi.swan.ac.uk



Swansea University
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