

Job Description: Research Data Scientist

Faculty:	Faculty of Medicine, Health and Life Science
Department/Subject:	Population data science
Salary:	Grade 8: £39,355 to £45,413 per annum together with USS pension benefits
Hours of work:	35 hours per week (100% FTE) or as a secondment
Number of positions:	1
Contract:	This is a fixed term position for 9 months until 31 st March 2027
Location:	This position will be based at the Singleton Campus

Main Purpose of Post	<p>Applications are invited for the position of Research Data Scientist in the CONNECT-AF project, part of the DARE-UK federated analytics study of stroke and systemic embolism in people with Atrial Fibrillation (AF) across Wales and the East of England.</p> <p>Join a highly renowned multidisciplinary research team based at the Population Data Science group at Swansea University Medical School to conduct federated analytics of cardiovascular outcomes. The post offers an opportunity to contribute to work with the potential to improve care for people with Atrial Fibrillation (AF), increase anticoagulation uptake, and inform policy and practice relating to earlier diagnosis and prevention. The project is sophisticated in its statistical and technical approach.</p> <p>The successful candidate will regularly work with population-level data and build robust research ready data assets and analytical pipelines of multi-state modelling of AF data for execution across the three Trusted Research Environments (TREs) involved in this federated project. As part of the DARE-UK exemplar, you will work closely with collaborators across the UK and gain first hand experience with federated analytics. Read more about this here. The successful candidate will:</p> <ol style="list-style-type: none"> 1. Work with large-scale routinely collected health data within the three TREs: SAIL Databank, East of England Secure Data Environment, and Dementias Platform UK. 2. Develop and curate linked datasets for deep phenotyping and AF-related e-cohorts, with associated metadata and documentation. 3. Carry out multi-state modelling for each e-cohort and contribute to the development of a containerised framework for submission through the five Safe-TES federated platform as part of TREvolution.
	<ol style="list-style-type: none"> 4. Contribute to research activity, including gathering, preparing, and interpreting data, and presenting findings in formats suited to the project and its audiences. 5. Prepare reports, publications, and other research outputs arising from the project, including material for internal and external audiences. The appointee will be expected to contribute to the preparation and publication of research papers as part of the role. 6. Work in an organised and professional manner, using sound judgement, identifying suitable approaches to project tasks, and seeking input where required. 7. Apply clear and careful approaches to the interpretation of research data and the reporting of findings. 8. Maintain effective and professional working relationships with colleagues and partners within the Faculty, across the University, and with external organisations including academic, public, and other partner settings. 9. Contribute to the development of research funding applications relating to the project, the wider team, and the Faculty. The appointee will be expected to contribute to the preparation of such applications as part of the role. 10. Contribute to Faculty organisational matters to help it run smoothly and raise its external research profile. 11. Keep up to date with developments in the field, including technical and subject-specific advances, and consider their relevance to research, practice, and wider benefit.



	<ol style="list-style-type: none"> 12. When requested, take part in committees or other formal groups as part of professional development and Faculty contribution. 13. Demonstrate and evidence own professional development, identifying development needs with reference to Vitae Researcher Development Framework, particularly with regard to probation, performance reviews, and participation in training events. 14. Maintain and enhance links with the professional institutions and other related bodies. 15. 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.
<p>General Duties</p>	<ol style="list-style-type: none"> 16. Promote equality, diversity, and inclusion in working practices and maintain positive working relationships. 17. Carry out all duties in line with safety, health, and sustainability policies and management systems, helping to reduce risks and impacts associated with the work. 18. Ensure that risk awareness forms part of routine working practice through compliance with the University's Risk Management Policy. 19. Undertake any other duties appropriate to the role as set out by the Faculty / Directorate / Service Area.
<p>Person Specification</p>	<p>Essential criteria:</p> <ol style="list-style-type: none"> 1. A PhD or equivalent postgraduate qualification in Statistics, Data science, public health or related discipline. 2. Evidence of active engagement, personal role, and contribution to writing and publishing research papers, particularly for refereed journals. 3. Evidence of the capacity for active engagement in designing research and writing, or contributing to writing, research protocols and/or applications for external research funding. 4. Ability to demonstrate significant independence of focus and direction in research – determining 'what, why, when and with whom' to progress work. 5. Project management skills and experience of managing a research project or similar. 6. Demonstrate an understanding of relational databases concepts and experience of their use, including evidence of the ability to build and use complex SQL queries to interrogate complex large data. 7. Experience of working with very large, linked data. Specifically, in working with routine data such as health or administrative data. 8. Evidence of the ability to run appropriate analysis on large datasets using statistical/programming language, such as R or Python. 9. Good communication skills, both written and oral. 10. A commitment to continuous professional development A commitment to continuous professional development. <p>Desirable Criteria</p> <ol style="list-style-type: none"> 11. Demonstrate an understanding of clinical coding thesauri and their use in the NHS. 12. Familiarity with research software engineering concepts. 13. Experience or knowledge of cardiovascular and population epidemiology. 14. Experience in running federated analytics. 15. Holding a safe researcher number from ONS.
<p>Welsh Language Level</p>	<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: Fatemeh Torabi – Fatemeh.torabi@swansea.ac.uk

