

Job Description: Data Scientist - Nuffield

College/School:	Swansea University Medical School
Job Title:	Data Scientist
Department/Subject:	Medical School
Salary:	Grade 7 £33,882 to £37,999 per annum together with USS pension benefits (pro rata)
Hours of work:	17.5 hours per week (50% FTE)
Number of positions	1
Contract:	Fixed term until 31 st December 2026
Location:	This position will be based at the Singleton campus with a flexible working approach with an expectation that the post holder attend campus (in Swansea) for team meetings on a regular basis.

Introduction	<p>The SAIL Databank is a world-class facility for the robust secure storage and use of anonymised person-based data for research to improve health, well-being and public services. Its databank of anonymised data about the population of Wales is internationally recognised. Backed and endorsed by the Government, the SAIL Databank receives core funding from the Welsh Government’s Health and Care Research Wales.</p> <p>We are seeking a data scientist to actively contribute to ground breaking research using anonymised data held within the Secure Anonymised Information Linkage (SAIL) Databank including records pertaining to the magistrate and Crown courts, prisons, children’s social care, education, substance misuse and health.</p> <p>Whilst the role is project specific, the appointee will sit within Environment and Health (ENVHE) Research Centre, an interdisciplinary team including epidemiologists, statisticians, data scientists, and geographers with experience of using the wide range of different datasets held within SAIL Databank.</p>
Background information	<p>The purpose of this role is to support the preparation and analysis of datasets from across a number of policy areas to examine the circumstances of children (under 18s) involved in criminal court proceedings across England and Wales. The project has a specific focus on exploring disparity and vulnerabilities amongst those who have breached their criminal justice orders.</p> <p>Further information about the project can be found on the funder’s website: https://www.nuffieldfoundation.org/project/understanding-the-circumstances-of-children-involved-in-breach-proceedings</p>
Main Purpose of Post	<ol style="list-style-type: none"> 1. Provide assistance on the project by working with large scale linked data (particularly from administrative databases containing data from the magistrates and Crown courts), extract and manipulate data, curate linked datasets ready for analysis. Use SQL (or other database query languages) for record linkage tasks. 2. Support the process of undertaking structured data analysis, dealing appropriately with duplicate, missing and erroneous data. Production of meta-data and documentation for newly derived data, documenting methodological decisions.

	<ol style="list-style-type: none"> 3. Participate actively in all relevant project meetings and professionally represent the interests of the project team at stakeholder meetings and events alongside the Principle Investigator. 4. Contribute to the interpretation of project findings and production of research outputs, including reports, data visualisations and academic articles.
<p>General Duties</p>	<ol style="list-style-type: none"> 5. Be self-motivated, apply and use their initiative, aiming to determine suitable ways to tackle challenges and seeking guidance when needed. 6. Interact positively and professionally with other collaborators and partners within the Faculty and elsewhere in the University and beyond as appropriate such as in statutory agencies, government officials, advocacy groups and academia. 7. Contribute to Faculty organisational matters in order to help it run smoothly and to help raise its external research profile. 8. 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. 9. When requested act as a representative or member of committees, using the opportunity to extend their own professional experience. 10. 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. 11. Maintain and enhance links with the professional institutions and other related bodies. 12. 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. 13. To promote equality and diversity in working practices and maintain positive working relationships. 14. 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. 15. To ensure that risk management is an integral part of any decision making process, by ensuring compliance with the University's Risk Management Policy. 16. Any other duties as agreed by the Faculty / Directorate / Service Area.
<p>Person Specification</p>	<p><u>Essential Criteria:</u></p> <ul style="list-style-type: none"> • A degree or equivalent in a relevant field • Evidence of the ability to actively engage in and contribute to writing and publishing research papers, particularly for refereed journals. • A demonstrable ability to conduct research in line with the objectives of the project. • Evidence of planning skills to contribute to the research project. • Experience of working with large datasets including the preparation of multiple linked datasets for analysis. • A commitment to continuous professional development <p>Welsh Language: Level 1 – ‘a little’ e.g. pronounce Welsh words, place names, department names. Able to answer the phone in Welsh (good morning / afternoon). Able to use of learn very basic every-day words and phrases (thank you, please, excuse me). Level 1 can be reached by completing a one-hour training course.</p>

For more information about the Welsh Language Levels please refer to the Welsh Language Skills Assessment web page, which is available [here](#).

Desirable Criteria:

- Some familiarity with epidemiological research and statistical analysis
- Experience of undertaking quantitative research in one or more of the following policy areas: children's social care, education, substance misuse, mental health or criminology
- Experience programming in SQL, SPSS, STATA, R, and/or Python.

Additional Information

Informal enquiries: Informal enquiries are welcomed and should be directed to Dr Helen Hodges; email at h.r.hodges@swansea.ac.uk

