POPULATION DATA SCIENCE

SUMMER INTERNSHIP PROGRAMME 2025

Swansea University
Prifysgol Abertawe
Population Data Science
Faculty of Medicine, Health & Life Science
Gwyddor Data Poblogaeth
Y Gyfadran Meddygaeth, Gwyddor Iechyd a Bywyd

Pioneering Population Data Science for Public Good

www.popdatasci.swan.ac.uk

ABOUT OUR AWARD-WINNING TEAM

Population Data Science at Swansea University is a cutting-edge research centre based in Swansea University Medical School, Faculty of Medicine, Health & Life Science. Specialising in secure-linked data analysis of health, social and other administrative data sources.

Our award-winning team are focused on delivering a world-class technology infrastructure to tackle some of the biggest challenges facing today's society and enable opportunities - creating a global research ecosystem with the potential to produce educational, environmental, economic, and societal impact.

Our team is involved with various projects and research programmes, conducting different methodological and applied skills across multiple disciplines to support and achieve our world-leading innovations. These skills include but are not limited to software development, database development and management, epidemiology, statistics, data mining, data visualisation, web development, project management, patient public and stakeholder engagement and Geographical Information Systems.

WE ARE PIONEERING POPULATION DATA SCIENCE

WHY SHOULD YOU APPLY TO OUR INTERNSHIP PROGRAMME?

01 Gain work experience with an award-winning team at the forefront of global population data science research.

02 Develop new skills with real-world data analysis to develop and apply your skills in this highly secure, state-of-the-art environment.

03 Explore a career path in Population Data Science and find out what fits you best.

04 Gain confidence with our internship programme. It is a perfect way to help you gain experience transitioning from university to full-time employment. You can gain valuable insights and knowledge, participate in meetings, and perform assigned tasks in a real-world setting.

05 Network and work alongside a team of highly skilled professionals including your supervisors and mentors you meet during your internship, who can be valuable references as you pursue a full-time job.

06 Build a strong CV and give yourself a head start with the internship.

07 Some interns have become full-time employees: Kellie Robinson and Rowan Dash from our 2023 intern cohort, both secured full-time positions in the SERP team at Population Data Science after their internships. Find out more about their journey here.

08 Paid employment for 12 weeks, including annual leave entitlement.

09 The program culminates in the Showcase Event with an opportunity for interns to present their projects. Check out the highlights from last year's Showcase event in this video.

Population Data Science Internship: Project 03

Title: HAPPEN-Wales

Summary: HAPPEN-Wales has captured self-reported health and wellbeing data from over 45,000 children aged 9–11 across Wales to address teachers' concerns regarding pupil health and wellbeing. The project generates actionable insights to bridge gaps between education, public health, and research. HAPPEN's e-cohort data is available within the Secure Anonymised Information Linkage (SAIL) Databank. The beneficiaries of this research are wide-ranging, from teachers and schools who will gain data-driven insights and practical recommendations to policymakers who will receive robust evidence to inform education and health policies.

The work undertaken in this internship will be dependent on evolving research priorities in this setting and will likely fall within the themes of attendance, attainment, and outcomes for pupils with Additional Learning Needs (ALN), as identified by the Welsh Government. Helping to identify areas for intervention and identify further priorities of the included themes.

Outcome by the end of 12 weeks:

- Creating actionable insights to address pupil health and wellbeing, enabling teachers to better support their students' needs.
- Identification of factors affecting attendance, attainment, and outcomes for pupils, particularly those with Additional Learning Needs (ALN).

Skills/background suited:

Essential

- Background/experience in using, linking and analysis of data.
- Experience with statistical software (R or Python).

Desirable

- Background/experience in education and public health.
- Some understanding of the Welsh policy context relating to education and future generations.

FIND OUT MORE ABOUT THE CENTRES SUPPORTING THIS YEAR'S PROGRAMME

SAIL DATABANK

SAIL Databank is a safe haven for billions of person-based records, which enables researchers to answer important questions for the benefit of society. Researchers can access a broad range of routinely collected data spanning up to 30 years from an entire population.

SAIL Databank achieves this by working collaboratively with data guardians, academics, regulators, members of the public, practitioners, and policymakers from Wales, across the UK and internationally.

The SAIL Databank holds de-identified data in linkable form and, following further safeguards, makes selected data available for analysis in anonymised form. Approved researchers can access the data remotely anywhere in the world, complete with analysis tools. Because the data accessed for research is anonymised, the work is carried out without researchers knowing the identities of the individuals represented.

SeRP

Secure eResearch Platform (SeRP) is the complete customisable solution for data sharing, linkage and analysis in a safe, secure and controlled environment that's accredited to the highest international standard. It does this in a governed environment allowing data owners to remain in full control at all times.

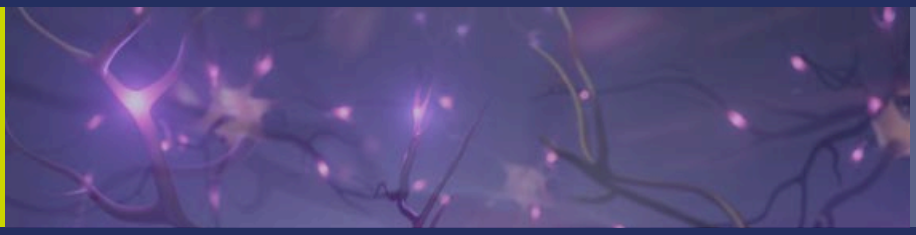
SeRP is the perfect solution for any organisation that has accumulated a large amount of data, that intends to share that data for the purposes of research and long term benefit to society, and that wants to do so in the most secure and safe way possible to reduce associated risks. SeRP can benefit sectors including healthcare, governments, academic Research, industry, charities & Not-for-profit organisations.

For more information on the benefits of SeRP, visit SeRP Benefits

FIND OUT MORE ABOUT THE CENTRES SUPPORTING THIS YEAR'S PROGRAMME

YDG CYMRU | ADR WALES

ADR Wales (Administrative Data Research Wales) unites specialists in each field from Population Data Science at Swansea University and the Wales Institute of Social and Economic Research and Data (WISERD) at Cardiff University with statisticians, economists and social researchers from Welsh Government. The partnership is ideally placed to maximise the utility of anonymous and secure data to shape public service delivery, which will ultimately improve the lives of people in Wales. The work carried out by the ADR Wales team covers areas such as early years, education, skills and employability, health and well-being, housing and homelessness, social care, mental health, social justice, climate change and major societal challenges.



Dementias Platform UK

Dementias Platform UK Data Portal brings together records of over 3 million people in a free-to-access resource.

Researchers can use the portal to identify which cohorts are relevant to them, apply for access to the data and then analyse it in a secure, remote environment complete with data linkage and analysis packages.

The portal brings the records together, ensures they are secure, supports data linkage studies using phenotypic, genomic, and imaging data, and makes them readily available for the benefit of academia, industry, regulators, health care providers, patients, and the public.

HOW TO APPLY

To find out more about the Summer Internship Programme, visit:

www.popdatasci.swan.ac.uk/about-us/summer-internship-programme/