



Health Data Insight C.I.C.
CPC4, Capital Park
Fulbourn
Cambridge
CB21 5XE

Job Description

Job title: Senior Health Data Analyst
Accountable to: Principal Health Data Analyst (HDI)
Hours: Part-time or up to Full-time (37.5 hours per week)
Job type: 2-years in first instance
Base/location: London, Cambridge, WFH
Salary: £49,200 - £55,500 depending upon experience

Job summary

We are looking for an experienced data analyst to join a team based in Health Data Insight C.I.C. (HDI). You will be working closely with colleagues in the National Disease Registration Service (NDRS), particularly those in the National Cancer Registration and Analysis Service (NCRAS). You should be passionate about the use of data in scientific research as well as a good communicator, able to build strong relationships and work collaboratively with colleagues and key stakeholders.

You will support the extraction, analysis and QA of data for a range of HDI projects that aim to improve patient care and outcomes (see the [HDI website](#) for further information). These will focus on cancer treatment patterns and outcomes. Up to one fifth of your time will be ring-fenced for NCRAS work, flexed as needed according to workload demands.

Main duties

You will support and lead the analysis of data for a range of HDI projects that aim to improve patient care and outcomes (see the [HDI website](#) for further information). These include descriptions of cancer treatment patterns, health outcomes, and genetic mutations, often through a series of retrospective cohort studies.

The role will involve:

- analysis, interpretation and presentation of public health and cancer data
- gathering, management and quality appraisal of large and complex data from multiple sources
- review of prevalence and incidence data for a range of cancers

- exploration of treatment effects on survival, health conditions and healthcare cost
- examination of the relationship between these variables and overall outcomes
- working with external parties to manage multiple projects and competing priorities.

Information Governance

- Ensure that all data transfer arrangements meet with the information governance requirements of HDI and NHS England.
- Ensure, with colleagues within the NCRAS, that the data is appropriately stored and used.
- Comply with all the information governance requirements required of those handling personal sensitive health data.

Data analysis, interpretation and reporting

- Lead on the development of analysis plans and protocols in discussion with stakeholders, following procedures and getting approval as necessary from relevant parties.
- Apply specialist analytical, statistical and epidemiological methods to complex data from a variety of sources, providing specialist advice on the appropriate use of these methods and the interpretation of their results.
- Undertake planned and ad hoc analytical tasks.
- Acquire and maintain a thorough understanding of relevant datasets, including potential uses and limitations, and participate in dataset user groups where appropriate. Share this knowledge as needed to advise on analyses.
- Work with the project teams to optimise use of new data sources and identify new and innovative ways to analyse and present intelligence. Engage with stakeholders to ensure analyses are valid and interpretation is clinically accurate.
- Contribute to HDI's analytical capability, planning, managing and delivering on a range of projects requiring complex analytical input from other HDI and external colleagues, including data output, workloads and delivery timescales.
- Take a lead role in communications and meetings with key stakeholders.
- Use a variety of methods including written briefings and oral presentations to interpret and communicate outcomes of highly complex data analyses to both non-statistical and statistical professionals and stakeholders, determining the appropriate level of complexity according to the needs of the audience.
- Support the local, national and international translation of outputs through awareness raising, oral presentations and written briefings or reports as well as manage and contribute to the production, publication and dissemination of journal articles and reports, epidemiological studies and any other outputs as identified by the project teams.
- Support and promote the use of HDI's quality assurance procedures and standard operating procedures, including compliance with corporate policies in relation to security, confidentiality and release of information.
- Work with the team to ensure the effective use by the end user of nationally developed tools and resources.

- Contribute to other innovative data projects in HDI working with analysts in other organisations.

General

- Identify own learning needs; locate appropriate training resources (e.g. books, web tutorials) to address these needs.
- Work with and support colleagues across the organisation.
- Develop and maintain strong working relationships with internal and external stakeholders.
- Provide education and training to others where appropriate.
- Manage own workload, estimating time to completion of tasks, identifying and reporting as necessary any factors that may cause delays or problems in implementation.
- Prioritise the needs of multiple pieces of work to meet deadlines, factoring in external factors and organisational requirements.
- Support capacity and capability planning across the team and allocation of workload to ensure timely delivery.
- Take an interest in cancer treatment/inequalities/healthcare and the cancer registration process, maintaining knowledge of relevant issues.
- Undertake any other duties as required by the Director or line manager, either on a temporary basis or following mutually agreed changes to the job description.

Person Specification:

- Educated to degree level in a biological science, mathematics or other health-related subject
- Post-graduate qualification or equivalent experience working with cancer and/or public health data in a quantitative role
- Applied experience, ideally outside of education, of data analysis, statistical analysis and programming
- Advanced experience of at least one of the following languages: SQL, R, Stata, Python.
- Ability to process data to a high standard
- Good understanding of information governance, data security and the importance of this within the context of reporting results or transferring data (e.g. GDPR, Caldicott principles)
- Experience of managing multiple projects simultaneously and balancing competing priorities
- Ability to work independently as well as part of a team
- Self-motivated and able to work and manage timelines and meet deadlines of projects involving the wider team

Employee benefits

We offer a friendly and supportive working environment plus:

- 27 days holiday plus bank holidays (rising after 5 years)
- flexible hours and working location; flexi-time / time off in lieu
- a contributory NEST pension scheme with generous employer contributions
- annual review of salary and bonus scheme
- eyecare voucher
- private counselling schemes
- cycle to work scheme
- salary sacrifice EV car scheme.

Equal Opportunities

Health Data Insight values diversity and is committed to creating an inclusive environment for all employees. We have robust policies and processes in place to ensure equal opportunities and fair treatment for all candidates and employees regardless of gender, ethnicity, disability, age, sexual orientation, education or other protected characteristics. Reasonable accommodations will be made for candidates with disabilities during the recruitment process and for successful applicants during employment. Join our team and help us build a culture of inclusion and belonging.

Health Data Insight C.I.C

HDI is a social enterprise overseen by the [Office of the Regulator of Community Interest Companies](#) which ensures we meet our social purpose and that the value we create is protected and used for social good.

Our aim is to:

- create value for public sector organisations by finding new knowledge from both existing and new sources of information
- provide a data management and linkage service that allows partners to access information in safe-havens that guarantee the privacy of each individual patient
- create visual, internet-based information services and applications that can be easily accessed, used and understood
- supply organisations with information and services that they can use to understand and help improve their services
- inform patients to enhance their selection, access and use of healthcare services and improve their understanding of their clinical condition and care.

Our strategic objectives are aligned to NHS and wider government policy to improve transparency and access to data, encourage self-management, enable choice and foster the use of social enterprises to deliver public services.

The National Cancer Registration and Analysis Service (NCRAS)

The National Cancer Registration and Analysis Service (NCRAS), which is within NHS England (NHSE), provides intelligence to drive improvement in standards of cancer care and clinical outcomes. This is facilitated through a series of work programmes, utilising the healthcare data and information collected about cancer patients by multiple specialist organisations and collated within NHSE. NCRAS builds on the work of partner organisations and teams to develop world class cancer intelligence for NHSE, partners – nationally and internationally - and the local public health system.

NCRAS leads on sharing high quality intelligence, knowledge, evidence and expertise to support the needs of stakeholders. It produces analyses, toolkits and reports which span both the Public Health and NHS agenda. New analyses include the number of people living with cancer, how outcomes vary between different patient groups and by stage at diagnosis, and an insight into cancer equality metrics.

NCRAS consists of cancer registration and intelligence teams in nine offices across NHSE. Each team will have national and local responsibilities and functions and will work closely with NHSE colleagues in other divisions, directorates, centres and regions.

HDI – NHS England Partnership

HDI has a Partnership Agreement with NHS England. The focus of the partnerships between the National Disease Registration Service (NDRS) and external organisations is to improve health outcomes using the real-world data collected by the National Disease Registration Service. These collaborative arrangements exist to support the development and application of innovative approaches and statistical techniques to the collection, quality assurance, data linkages and analyses of registry data. They are formed when an area that is deemed of significant benefit to patients is identified by both parties and when neither organisation would otherwise be able to progress individually.