

JOB TITLE	SENIOR ADVISOR (QUANTITATIVE DATA)
Banding	£48,921 to £69,164
Hours	37.5hrs/week (Full time)
Base	Magog Court, Shelford Bottom, Cambridge CB22 3AD Hybrid working options available
Team	Real World Evaluation
Accountable to	Head of Evaluation
Terms	Fixed Term until 31 st August 2026

About Health Innovation East:

At Health Innovation East we believe that great ideas only make a difference for our health when they are put into practice. Health Innovation East is the innovation arm of the NHS in the East of England, and we are one of 15 regional Health Innovation Networks that support the introduction of innovative technologies, devices and care pathways to transform health and care.

Our team of clinicians, clinical scientists, commercial and NHS experts works with pioneering start-ups, universities, global corporates and the NHS to ensure that the best innovations in health and care reach the people and places where they deliver the most benefit. We also have a growing team of specialist programme managers, experts in real world evidence and data scientists who support the specialist work increasingly needed to deliver today’s world of technology-enabled patient care.

Since August 2024, Health Innovation East have formed a formal partnership with Cambridgeshire and Peterborough Integrated Care Board to support the evaluation capacity and capability of both organisations. This Health Economics and Evaluation function is hosted within the Strategic Commissioning Unit, CPICB at Cambridge and Peterborough Integrated Care Board.

The Health Economics and Evaluation Collaborative vision is to integrate rigorous health economic and evaluation evidence into the Integrated Care Board decision-making processes, with the aim to enhance allocative efficiency and foster better, more equitable health outcomes for the Integrated Care Board population.

Role purpose:

We are seeking a highly motivated Senior Data Scientist to join our team. The ideal candidate will leverage their strong analytical and communication skills to transform complex datasets into actionable insights. This role involves:

- designing and executing data analysis projects
- building statistical or machine learning models



- effectively communicating findings to stakeholders across the organisation

Key responsibilities:

As a Senior Data Scientist, the post holder will:

- **Data Collection and Preprocessing:** Gather, clean, and organize large, diverse datasets to facilitate advanced analysis.
- **Statistical Modelling & Machine Learning:** Develop, validate, and implement statistical models or machine learning algorithms to tackle evaluation questions.
- **Data Visualisation & Reporting:** Translate complex data analyses into concise, meaningful reports, visualizations, and presentations for both technical and non-technical audiences.
- **Collaboration & Stakeholder Management:** Work cross-functionally with external (academia, biopharma) and internal partners - strategy, clinical, operational and business intelligence teams - to understand data requirements and communicate results.
- **Continuous Improvement:** Stay updated on emerging trends, tools, and best practices in data science to drive innovation and efficiency.

Key relationships and working with others

- This role will be required to develop and maintain excellent working relationships with the internal and other external stakeholders as required.

Corporate duties:

- Support the organisation in creating an environment that values risk management and promotes the highest standards of health and safety for Health Innovation East's employees, supported by policies and procedures as appropriate
- Comply with current data protection laws and company data protection policy and procedures
- Support the organisation in developing a collaborative working environment and a culture of innovation and positive leadership, participating in the appraisal process, as required
- Promote Equal Opportunities and affirm that staff, colleagues, patients and others who encounter Health Innovation East are afforded equality of treatment and opportunities.
- Observe Health Innovation East's Equality and Diversity policy in every aspect of your work, avoiding any behaviour which discriminates against colleagues, potential employees, patients or clients on any grounds
- Work with others appropriately to achieve organisational goals
- Comply with the Health Innovation East values and behaviours

Person Specification:

	Essential	Desirable
Qualifications and training:	<p>Educated at degree or Master’s level or possess equivalent experience.</p> <p>A degree in a quantitative field (e.g., Mathematics, Statistics, Computer Science, Data Science or related) is preferred.</p>	<p>Experience using libraries such as TensorFlow, PyTorch, scikit-learn, or similar.</p>
Knowledge and understanding	<p>Proficiency in R or Python for data manipulation, statistical modelling, and visualization.</p> <p>Demonstrable ability to formalise statistical models and solve data-driven problems.</p>	<p>Experience using project management methodologies.</p> <p>Familiarity with the NHS and health data.</p>
Skills	<p>Excellent written and verbal communication skills to explain complex analyses clearly to various stakeholders.</p> <p>Ability to create intuitive visualisations and concise summaries of key findings.</p> <p>Strong ability to interpret complex data or evidence and derive actionable insights.</p> <p>Proven track record in designing analytical approaches to address business questions.</p>	<p>Proficiency with Git or similar tools for collaborative code development.</p>
Disposition/ Aptitude	<p>The ability to break down complex problems and datasets to uncover insights and patterns. This involves critical thinking and a systematic approach to problem-solving.</p> <p>Meticulous in analysis to ensure accuracy and reliability of the results.</p> <p>Works well within a team and across multiple stakeholders</p> <p>Willingness to adapt to new technologies, methodologies, and regulations.</p> <p>Strong ethical mindset, ensuring data privacy and adhering to ethical standards.</p>	

Right to work in the UK: Applicants must be able to provide evidence of their right to work in the UK at the point of interview.

The role holder will sometimes be required to be flexible with their hours of work for the team to collectively meet certain deadlines.

Occasional travel both within the region and nationally is required.

Personal development responsibilities

- Understanding and awareness of own personal development needs
- Maintenance of a compliant professional portfolio where required.

Key relationships

Internal - all Health Innovation East employees will be expected to form key relationships within the organisation relevant to the role.

External - in addition, the successful appointee will need to develop and build relationships with external colleagues as relevant to the role. These may include, but are not limited to, relationships with colleagues within partner organisations such as:

- Industry partners including SMEs and large corporates within the health arena.
- Academic partners in Higher Education Institutes and Tech Transfer Offices.
- Funding/investment organisations.
- Applied Research Collaboration (ARC) East of England colleagues.
- NHS Trusts and NHS Foundation Trusts.
- Local Government.
- Integrated Care Boards.
- Third Sector Organisations.
- Patient Advisory Groups/Services.

Benefits of working at Health Innovation East

As part of the benefits package, Health Innovation East's employees are entitled to 27 days of annual leave plus bank holidays (pro rata for less than whole-time equivalent) and are offered a company pension (employer contribution up to 10% of annual salary), life insurance (on completion of a probationary period) as well as a cycle to work scheme. In addition, all employees have unlimited access to the company's well-being programme which is externally provided and fully confidential. Team members on secondment will remain on their employer's terms and conditions.

How to apply

To apply please submit your CV and a covering letter by 9am 11 April 2025 to recruitment@healthinnovationeast.co.uk specifying your motivation for applying and how you meet our person specification. For an informal discussion, please contact deliveryoperations@healthinnovationeast.co.uk. Interviews will be conducted during the week commencing 21st April 2025.