



Health Innovation
Yorkshire & Humber

**Transforming Lives
Through Innovation**



**Digital Twin
Programme Lead**
April 2026



Health Innovation Yorkshire & Humber

Digital Twin Programme Lead - Recruitment Pack including Job description and Person Specification

If you want to make a difference in the Yorkshire & Humber region, you have come to the right place. We need determined and passionate people to work with us to deliver our wide range of programmes. We want people who look at our values and think..... yes, that's just where I want to be!

The Yorkshire Digital Twin Programme is developing a first-of-its-kind population health digital twin, a virtual representation of population health that enables real-world simulation, prediction, and decision support across NHS systems. Led by Health Innovation Yorkshire & Humber, the programme is recognised by the international Digital Twin Consortium as one of their testbeds and is attracting significant interest from national and global partners across health, research, and industry. With a disease-agnostic architecture designed to scale across multiple long-term conditions, this is a rare opportunity to shape a programme that sits at the forefront of how data, technology, and innovation can transform population health outcomes.

The role and how to apply

This is a full-time, fixed term contract for 12 months.

If you are interested in the role, available to start as soon as possible and meet the requirements in the person specification, please apply by sending **a CV and a 1 page covering letter** explaining why the role interests you and why you want to work with us.

The CV and covering letter should be emailed to hr@healthinnovationyh.com no later than 12 noon on **Friday 1st May 2026**



Our values

Our values are the things that we hold dear and are important to us, reflecting how we work and who we are collectively. Through our behaviours, we apply these values internally to create a supportive and innovative culture and enable high impact collaborations with external partners and stakeholders.



Stronger Together

We're confident in the results we can achieve when we're united with our colleagues, stakeholders and partners.

We are: **Connected, Trusting and Honest partners**



Always Learning

Every day's a school day. We constantly develop ways to excel and work tirelessly to build our expertise.

We are: **Switched-on, Improvers and Grafters**



People People

We love catching up for a cuppa and a natter but, more than that, we're curious to learn more about other people's perspectives.

We are: **Caring, Inclusive and Open-minded**



Energetic Pioneers

We find new things and ideas that can make a difference to the health and prosperity of our region. This is what gets us out of bed in the morning.

We are: **Adventurous, Passionate and Resourceful**

Purpose



**Transform lives
through innovation**

Vision



**Improve the health and prosperity
of our region by unlocking the
potential of new ideas**

5-year mission



Our knowledge,
skills, and expertise
will demonstrate that we
are world leaders in unlocking
innovation to address current
and future health, economic,
and societal challenges.



Our 5-year strategic aims

Our strategic aims provide direction and focus for us as an organisation, supporting progress towards our mission. They provide greater detail on the 5-year ambition of the organisation, whilst providing a framework for decision-making and resource allocation.



Strengthening our foundations

Investment in our future starts at our heart. By continuing to invest in, and develop our people's skills and leadership, we will be equipped for further growth.



Enhance our role and reputation

We hold a unique role as trusted thought leaders with global reach. We'll use this position to drive lasting change and improve life outcomes by empowering our communities.



Be fit for the future

We will ensure our ways of working are innovative, agile, and continually challenge the status quo. We will equip ourselves to better identify and respond to societal challenges of the future.



Foster connections

Our continued commitment to collaboration will strengthen strategic partnerships for the benefit of our population. We will ensure visibility of our work and its impact to foster advocacy and grow new business.



Grow our region

We will lead the way in promoting Yorkshire and the Humber and its assets to create a thriving, globally-connected innovation ecosystem. We commit to growing and diversifying our role to accelerate economic growth and prosperity, recognising our own success contributes to the region's success.



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What we give:

- Salary £60,000 to £70,000 per annum, depending on experience.
- Flexible and agile working – hybrid working between home and office plus other locations as required
- 25 days holiday + statutory days
- 3-day office closure between Christmas/New Year bank holidays
- Holiday buy-back scheme via salary sacrifice
- Contributory matched pension (up to 10%)
- Fabulous brand-new head office based on the National Health Innovation Campus in Huddersfield with co-working and event spaces and hot-desking facilities.
- Learning and Development opportunities
- Wellbeing programme
- Employee Assistance Programme/Mental Health First Aiders
- Electric Car Scheme
- Social events
- Financial Wellbeing Programme





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Role Purpose

The Digital Twin Programme Lead will provide strategic and operational programme management for the development, governance, and delivery of a population health digital twin programme across West Yorkshire. The postholder will act as the senior lead for a complex, multi-partner initiative spanning NHS systems, academia, industry, and national bodies.

The role requires a blend of strong programme management skills, excellent stakeholder management, deep understanding of data governance and information standards, and ideally practical experience of digital twin or advanced analytics programmes. The postholder will ensure the digital twin is clinically meaningful and relevant to patients, ethically robust, technically credible, and aligned to system priorities such as population health management, health inequalities, productivity, and pathway transformation.

Key Duties and Responsibilities

Programme Leadership & Delivery

- Provide overall programme management for the Digital Twin Programme, setting clear vision, objectives, milestones, and success measures.
- Lead the design, development, and phased delivery of the digital twin, ensuring alignment with system priorities and national policy.
- Oversee multiple interdependent projects including data integration, modelling, analytics, simulation, and user-facing tools.
- Ensure robust programme management, including planning, resourcing, risk management, benefits realisation, and reporting.
- Escalate risks, issues, and dependencies appropriately and proactively.
- Ensure patients and carers are at the heart of the development of the Digital Twin

Stakeholder Management & Partnership Working

- Build and maintain strong relationships with senior stakeholders across Integrated Care Boards, provider collaboratives, local authorities, academia, industry partners, and national bodies.
- Support the interface for the digital twin between HIYH with executive leaders, clinicians, and policy stakeholders.
- Facilitate consensus across diverse partners with differing priorities, incentives, and governance arrangements.
- Ensure all programme boards, steering groups, and technical advisory forums have clear purpose and deliver in support of the wider programme





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- Represent the programme at regional and national meetings, conferences, and external events.

Data Governance, Ethics & Assurance

- Establish and oversee robust data governance arrangements, ensuring compliance with UK GDPR, Data Protection Act, NHS information governance, and relevant ethical frameworks.
- Work closely with data controllers, Caldicott Guardians, IG leads, and legal teams to agree data sharing agreements, DPIAs, and governance models.
- Ensure transparency, public trust, and appropriate patient and public involvement in the use of data and digital twin outputs.
- Oversee assurance processes covering clinical safety, data quality, model validity, bias, and explainability.

Digital Twin Development & Technical Oversight

- Provide informed leadership across digital twin development, including data architecture, interoperability, modelling approaches, and analytics.
- Work with technical, academic, and industry partners to shape the twin's design, ensuring scalability, reusability, and sustainability.
- Translate complex technical concepts into clear narratives for non-technical stakeholders.
- Ensure the digital twin supports real-world decision-making, service redesign, and policy development.

Strategy, Growth & Sustainability

- Identify opportunities for further funding, commercialisation, or scale-up of the digital twin capability.
- Support the development of bids, business cases, and partnership agreements.
- Ensure learning from the programme is captured and disseminated to support wider system impact.

Leadership & Ways of Working

- Lead and motivate a multidisciplinary team, fostering collaboration, innovation, and continuous improvement.
- Champion inclusive, ethical, and responsible innovation practices.
- Promote organisational values and contribute to a positive, high-performing culture.





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Person Specification

Qualifications

- Degree-level qualification or equivalent experience in a relevant field (e.g. health, data science, digital, public policy).
- Programme or project management qualification or equivalent experience.
- Evidence of continued professional development.

Knowledge & Experience

- Significant senior leadership experience delivering complex, multi-partner programmes.
- Experience leading data-driven or digital transformation programmes within the NHS or public sector.
- Strong understanding of data governance, information governance, and regulatory requirements.
- Experience working with advanced analytics, modelling, digital platforms, or digital twin-adjacent technologies.
- Proven ability to influence and advise senior clinical, executive, and policy stakeholders.
- Experience developing business cases, funding bids, and programme reports.

Skills & Abilities

- Excellent stakeholder management, facilitation, and negotiation skills.
- Ability to operate effectively in high-ambiguity, fast-moving environments.
- Strategic thinker with strong analytical and problem-solving capability.
- Excellent written and verbal communication skills, including report writing and board-level presentations.
- Ability to translate complex technical concepts into clear, actionable insight.

Personal Attributes

- Visible and credible leader with presence and authority.
- Collaborative, adaptable, and resilient.
- Strong commitment to ethics, inclusion, and public value.





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- Proactive, delivery-focused, and improvement-oriented.

Other Requirements

- Willingness and ability to travel regularly across the region and nationally as required.

