

Health Data Research UK

Applicant Pack

Job description and person specification

Post:	Senior Front End Software Developer for HDR UK's Innovation Gateway
Location:	Flexible
Salary:	£70,000
Reporting to:	Head of Development, HDR UK
Contract:	Full Time Role, Permanent

About Health Data Research UK

Health Data Research UK (HDR UK) is the national Institute for data science in health. Our UK team of experts develop and apply cutting-edge data science approaches to clinical, biological, genomic and other multi-dimensional health data to address the most pressing health research challenges facing the public.

Our mission is to make game-changing improvements in the health of patients and populations through data science research and innovation.

Established in 2018, HDR UK is a UK based charity working across the health research sector to bring together the UK's unique data assets and specialists across academia, research and healthcare to unlock knowledge and deliver insights. By undertaking research at scale, across a population of up to 65 million people, we have an unrivalled opportunity to use data to the highest ethical standards to drive breakthroughs in medical research. This unleashes the potential to improve the way we are able to prevent, detect and diagnose diseases such as cancer, heart disease and asthma.

At Health Data Research UK, we employ talented individuals who bring their own unique skills and experience to support the vision and benefit the whole team.

We have been central to the UK's response to COVID-19, enabling a trustworthy, national approach to using health data, drawing on the full capabilities of UK research, enabling health data for research into understanding the virus, clinical trials for treatments (including Dexamethasone), symptom trackers, risk calculators and impacts on vulnerable groups, including cancer patients.

Purpose of the post

HDR UK requires the services of an experienced senior front end developer to work on the next stage of its flagship Innovation Gateway (www.healthdatagateway.org) and associated software services. The Innovation Gateway was first released in May 2020 and provides a key resource to discover and access health data resources for researchers and data custodians. Its primary function is providing visibility to and supporting access requests for data sets by researchers in the UK and around the globe to health data that can support them in their quest to deliver scientific insights, that improve health and healthcare of the UK and worldwide populations.

The Gateway today holds information on over 750 data sets which researchers can securely request access to and is supported by over 60 data custodians across the UK and the globe.

These data sets have supported the publication of over 2,000 impactful papers at the cutting edge of scientific and medical discoveries.

The Gateway has been a critical deliverable in HDR UK's first quinquennium (5 years) and we are really looking to scale up as we look forward into the future to support 1,000's of researchers on a global basis discovery and gain access to data in a trustworthy and secure fashion, enabling discoveries that improve people's lives.

The successful candidate will be expected to work within the Gateway agile software development team, providing development leadership and hands on implementation of key functionality and new concepts, primarily focused on the front-end aspects of the product.

Main Responsibilities:

- Leadership of front-end software development for a single scrum team
- Implementation across front end aspects of HDR's Innovation Gateway including: Search, Content Management, Visualisations and Integrations
- Working with Solution Architect and Head of Development on new technology concepts
- Working to an agile methodology, with fortnightly sprint deliveries
- Documentation of code and solutions
- Team work expectations
 - Working with the Scrum Master, Product Owner, Business Analysts and Testing Lead as part of the leadership team
 - Collaboration with senior HDR UK members, technology teams and external technical partners, standards bodies

Continuous Improvement:

HDR UK is dedicated to continuous improvement through our quality management system and demonstrated by our commitment to achieve ISO 9001 accreditation. The post-holder will review, analyse, identify and implement opportunities for quality improvement within their specialism and as part of the wider team through our strategy development and internal audit processes.

Key contacts / relationships:

The successful candidate will need to work collaboratively across HDR UK's internal organization and software design and development team. They will also be expected to co-work and collaborate externally with 3rd party system integrators, software vendors, infrastructure providers, standards bodies and end-users which include both researchers and data custodians across industry and academia.

Knowledge, skills and experience

Essential:

- 5+ years software development experience in a senior role
- 2+ years experience working with React (JavaScript)
- 2+ years experience in any testing framework
- 2+ years experience working with Git
- Experience consuming API's
- Working in an Agile / SCRUM team environment
- Proficient understanding of web markup, including HTML5, CSS3
- Basic understanding of server-side CSS pre-processing platforms, such as LESS and SASS
- UI/UX design
- Proficient in English

Desirable:

- MongoDB knowledge
- Experience using Cypress and/or Jest test frameworks
- Experience working with d3.js, cytoscape.js, graphql, express.js
- Experience using Confluence, JIRA, Trello and similar Agile project management tools
- An understanding of research delivery within the public sector, academia and/or industry
- Cloud computing platform skills (preferably GCP)
- Good understanding of SEO principles and ensuring applications adhere to them
- Full stack development expertise

Dimensions

- This is a full-time 5 day per week role

Application Process

Please apply through our online recruitment platform. You will also be asked to upload a short covering letter and CV. Please upload this as one document.

If you have any queries please contact recruitment@hdruk.ac.uk

HDR UK's values

HDR UK's values guide how we work together within HDR UK and with our partners and other stakeholders:

1. **Transparency:** we will share information, insights and innovations so that we learn faster together.
2. **Optimism:** we believe that we can make things better, that we can do things differently and that we can overcome challenges to create a new and thriving health data ecosystem that benefits patients and the public, the NHS, scientific discovery and industry.
3. **Respect:** we deliver better results when we work in a truly interdisciplinary way. We listen, share and respect a diversity of thought and opinion, perspective and experience. We are inclusive - leveraging and fairly attributing the expertise and capabilities of others.
4. **Courage:** we are leading the way and will be prepared to try new things, take risks, embrace ambiguity and challenge the status quo. We will contribute opinions to shape the future of health data research.
5. **Humility:** we have a lot to learn from others; and aim to be free from pride and arrogance.

Equal Opportunities Policy Statement

Health Data Research UK is an equal opportunities employer, and as such aims to treat all employees, consultants and applicants fairly. It is our policy to provide employment equality to all, irrespective of:

- Gender, including gender reassignment
- Marital or civil partnership status
- Having or not having dependants
- Religion or belief
- Race (including colour, nationality, ethnic or national origins)
- Disability
- Sexual orientation
- Age

We are opposed to all forms of unlawful and unfair discrimination. All job applicants and employees who work for us will be treated fairly and will not be unfairly discriminated against on any of the above grounds. Decisions about recruitment and selection, promotion, training or any other benefit will be made objectively and without unlawful discrimination. Our diversity and inclusion policy is [here](#).