

Health Data Research UK

Applicant Pack

Job description and person specification

Post:	Dev-Ops Engineer for HDR UK Innovation Gateway
Location:	Flexible
Salary:	£70,000
Reporting to:	Head of Development
Contract:	Full Time Role

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 a DevOps engineer to work on the next stage of its flagship Innovation Gateway (www.healthdatagateway.org) and associated software services. The Innovation Gateway was 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 as a integral part of the Gateway agile software development team, providing definition, implementation, operation and management for the infrastructure of healthdatagateway.org (Gateway) and all of its associated services.

Main Responsibilities:

- Responsible for the Innovation Gateway's Google Cloud Platform (GCP) deployment
- Defining all infrastructure as code resources for containers and applications
- Building and maintaining the CI/CD Pipeline
- Managing Dev, Staging and Production environments and each fortnightly code release
- Responsible for tuning database persistence, search tools and application layer (Node.js)
- Documenting and recording the current technical IT estate and the process of deployment from development to production
- Ensuring strategy and architectural decisions consider infrastructure implications
- Provide 3rd Line support to HDR customers
- Teamwork expectations
 - The Dev-Ops role is a critical team role in agile scrum and a high degree of team working is expected of the successful candidate
 - Collaboration with software development colleagues on CI/CD, Testing and fortnightly deployments across test environment as an integral part of the Gateway agile delivery organisation
 - Working closely with our scrum master and test lead for regular deployments and managing issues that may impact releases
 - Collaboration with the solution architect on decisions that impact infrastructure

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 infrastructure providers, software vendors and other technical partners.

Knowledge, skills and experience

Essential:

- Demonstrable Dev-Ops experience working in an Agile / SCRUM team environment
- Google Cloud Platform experience
- CI/CD Pipeline development and management experience
- Experience working with Git (Pref GitHub) and automated deployment therein
- Kubernetes
 - Monitoring and maintenance of Kubernetes cluster
 - Development and maintenance of automated CI/CD pipelines for deploying/updating application pods
- Demonstrable knowledge of Docker image creation
- Kubernetes, Jenkins, Docker
- Experience with MongoDB & SQL Database Technologies
- 5+ years experience of System Administration
- Clear communications skills and comfortable holding a critical high-profile role within the team
- Proficient in English

Desirable:

- Experience of implementing Docker image registries
- Experience using Confluence, JIRA, Trello and similar Agile project management tools
- Knowledge of multiple CMS systems
- DevSecOps knowledge
- GCP certification
- An understanding of research delivery within the public sector, academia and/or industry

Dimensions

- This is a full-time 5 day per week role
- This role has a flexible location, however you may be required from time to time to work at other premises or sites as required.

Application Process

For an informal discussion about the role please contact Recruitment@hdruk.ac.uk to talk with the appropriate member of the team.

How to apply: Unless specified, please apply using our online portal. We use a recruitment process that is based on finding out more about the relevant skills and knowledge an applicant has and to help us with this we ask you 3 or 4 skills-based questions as part of the application process.

We will ask you to upload your CV and covering letter, please do this in one document, this will be anonymised and may be used to help us with our shortlisting.

- The closing date for this vacancy is 17:00 on Monday 9th January
- Interviews are expected to take place, over zoom the following week.

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:



Health Data Research UK

- 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](#).