

Cloud Engineer (AWS)

Department:	Health Informatics
Salary:	£59,675 - £69,164
Hours of work:	12-month fixed term contract with potential for extension following funding confirmation. Full time or 0.8FTE. Flexible working hours/ options compatible with the role can be discussed.
Base:	Cambridge. We offer flexible working arrangements. Our staff combine on-site and remote working, enabling us to come together when it matters most and promote a healthy work-life balance.
Reports to:	Principal Bioinformatic Infrastructure Engineer
Closing date for applications:	9:00am on 2 April 2025
Date of Interview:	2 May 2025, in person (Cambridge)

About Health Innovation East

Health Innovation East helps the best innovations in health and care reach the people, places and problems where they bring most benefit.

We are a team of clinicians, data scientists, life sciences industry experts and skilled programme leaders passionate about helping the best innovations in health and care reach the people, places and problems where they bring most benefit. Whether working with global companies, pioneering start-ups, leading universities or regional health providers, we never lose sight of the patients and communities we serve.

As the regional innovation arm of the NHS our collective skill set is valued by the NHS and industry to implement the advances being made across health and care.

<https://healthinnovationeast.co.uk/>

Our values and commitment to equity, diversity and inclusion

Health Innovation East is fully committed to being an inclusive employer, affording equity of opportunity and welcoming applicants from broad and diverse backgrounds.

Staff at Health Innovation East have come together to co-produce our values and expected behaviours. Our values focus on providing trusted expertise, being inclusive, kind and collaborative in all our working relationships and implementing innovations that truly matter to our communities and partners.

What are we looking for?

We are looking for colleagues who share not only our values but also our enthusiasm and commitment to making a difference for our communities. We are united by being dynamic, curious, creative and adaptable. We appreciate the value of evidence, enjoy trying new and different approaches to solving problems, and are comfortable with ambiguity, often-changing plans and unanticipated challenges.

Job summary and purpose

The post holder will work as part of the Health Informatics Team, delivering programmes of work that provide secure cloud-based environments for storing and accessing health and other sensitive data for research and innovation. The team brings together partner organisations from across different sectors to provide the programme management, operational and technical functions for both nationally and locally driven projects.

The **Cloud Engineer** will work closely with the wider team to design and implement secure environments for health data research on AWS. You will work within a multidisciplinary Agile team focusing on implementing DevOps throughout the development lifecycle of projects. This will include furthering automation through code pipelines, lambda, StepFunctions and Cloud Development Kit (CDK), extending user facing functionality, improving operational processes and identifying alternate approaches to data flow within the platform. The post holder will act as both a subject matter expert and hands-on engineer. An active practical interest and relevant experience in machine learning and AI methodologies is required including statistics from a maths or physics background.

A significant portion of this role will be supporting the [East of England Secure Data Environment](#) (SDE) - part of an interoperable NHS Research Secure Data Environment network, giving approved researchers secure access to de-identified NHS healthcare data, for approved projects.

Key responsibilities

- Implementation of tooling to detect data leaks via trained ML/AI models.
- Developing cloud infrastructure to rapidly deploy resources for new projects.
- Supporting wider cloud platform design and development activities.
- Contribute to long-term infrastructure planning
- Engagement with wider Health Informatics team projects.
- Provide technical input into the development of project plans and feasibility assessments.

Corporate and personal responsibilities

- Promote equal opportunities and affirm that staff, colleagues, patients, and others who encounter Health Innovation East are afforded equality of access, experience and outcomes.

- Observe Health Innovation East’s equity, diversity and inclusion pledges in every aspect of your work, avoiding any behaviour which discriminates against colleagues, potential employees, patients, or partners on any grounds.
- Uphold and promote the organisation’s values.
- Work flexibly and collaboratively with others to achieve the organisation’s goals and support its values.
- 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.
- Ensure up to date knowledge is maintained and comply with current data protection laws and company data protection and confidentiality policies and procedures.
- Ensure that we only operate within our remit of not offering clinical advice.
- Adhere to all company policies and procedures and any applicable legislation.

Person specification

Competence	Essential requirements	Desirable requirements
Qualifications and training	Degree in relevant subject with strong statistics element (Maths/Physics) or significant equivalent experience AWS Cloud Associate-level certification (or higher)	
Knowledge	Extensive understanding of Cloud technologies and their limitations	
Skills	AWS CodePipeline and automations AWS Cloud Development Kit (CDK) – Python AWS Lambda, StepFunctions Excellent spoken and written communication Confident working in a collaborative team. Comfortable prioritising and managing workload	AWS Landing Zone Accelerator AWS Research and Engineering Studio

Competence	Essential requirements	Desirable requirements
	Experience working with Agile software development methodologies (e.g. Scrum or Kanban).	
Experience	<p>Practical experience with Machine Learning and/or AI models</p> <p>Demonstrable experience git tooling, branching, tagging and release methods.</p> <p>Demonstrable experience of production grade Python and Linux shell scripting.</p> <p>Demonstrable experience of Infrastructure as Code development (Terraform, Ansible, Python-CDK).</p> <p>Experience of AWS Cloud platform best practices and use of AWS CLI & SDKs.</p>	JIRA and Confluence for work tracking and documentation

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 System and 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 2 April to recruitment@healthinnovationeast.co.uk specifying your motivation for applying and how you meet our person specification. For an informal discussion, please contact healthinformatics@healthinnovationeast.co.uk.

This job description is intended as an outline of the general areas of activity and will be amended in the light of the changing needs of the organisation.