

Cloud Architect – Job Description

Role Purpose:

To be responsible for designing, managing, and overseeing CPI's cloud data strategy & solutions. This involves ensuring that cloud solutions are scalable, efficient, secure, and cost-effective while aligning with the wider business goals and objectives. This role is crucial in helping CPI leverage cloud technologies for scalable and optimised data management.

Key Responsibilities:

- Embrace and role model the desired behaviours to exemplify our Company values, promoting an ethical, positive company culture.
- To maintain consistent and documented compliance with all relevant Safety, Health and Environmental (SHE), Good Manufacturing Practice (GMP), Data Integrity (DI), quality and best practice requirements.
- To develop and implement cloud strategies for CPI in order to deliver cloud aspects on business strategy
- To design, manage, and maintain CPI's cloud architecture to ensure efficiency, cost and security.
- To evaluate all CPI's cloud applications and software to ensure they are fit for purpose, aligning with CPI's digital strategy.
- To evaluate supplier/customer business, process, systems and technology requirements during project scoping, and advise on best practices to help guide and solidify proposed designs, often working with incomplete requirements.
- To define best practices for migrating infrastructure, including bulk migrating applications to the cloud.
- To collaborate with technical and IT teams to optimise cloud infrastructure in order to deliver key business targets.
- Ensure strict adherence to industry standards, government regulations, and defence contract compliance requirements, maintaining security, accuracy, and integrity in data management.
- To focus on continuous improvement and stay updated on emerging cloud technologies and trends.
- To horizon scan for new technologies and produce recommendations to the business to improve the cloud architecture.
- Developing and implementing cloud governance policies and procedures for CPI.
- To ensure any cloud adoption project is managed and implemented in accordance with best practice.
- Work closely with Legal & Procurement and other CPI teams to ensure any cloud-based solutions are compliant and effective for CPI.
- Share knowledge to wider teams on cloud architecture, upskilling employees where possible.

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- Act as a cloud data engineer subject matter expert working across different business units, translating requirements from technical and non-technical stakeholders.

Good Manufacturing Practice - GMP

CPI have a responsibility to manufacture medicinal products of the requisite quality, fit for their intended use and be in accordance with the relevant Manufacturing and Marketing Authorisations, Clinical Trial Authorisation, Product Specification, Drug Master File or CEP Dossier as appropriate and which do not place patients at risk due to inadequate safety, quality or efficacy. The Pharmaceutical Quality System, which incorporates Good Manufacturing Practice, is designed to deliver this quality objective, the attainment of which requires the participation and commitment of all staff across departments and at all levels within the company.

Good Manufacturing Practice is the part of Quality Management which ensures that products are consistently produced to the correct quality standards. To comply with the principles of GMP, it is required that clearly defined procedures are adhered to when performing operations across CPI.

Data Integrity - DI

Data Integrity is the degree to which data are complete, consistent, accurate, trustworthy, reliable and that these characteristics of the data are maintained throughout the data life cycle. The data should be collected and maintained in a secure manner, so that they are attributable, legible, contemporaneously recorded, original (or a true copy) and accurate. Assuring data integrity requires appropriate quality and risk management systems, including adherence to sound scientific principles and good documentation practices.

CPI, as a GXP organisation, have developed a Pharmaceutical Quality System, which incorporates a DI Governance System – a series of arrangements to ensure that data, irrespective of the format in which they are generated, are recorded, processed, retained and used to ensure the record throughout the data lifecycle.

To comply with the principles of DI, it is required that clearly defined procedures are adhered to when performing operations across the site. All staff are actively encouraged/supported in the reporting of errors, omissions and undesirable results.

Direct reports: No direct reports

Person specification

Education / Qualifications:

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Essential:	Desirable:
Educated to Degree level (or equivalent) in a Computer Science, IT or related field, and relevant cloud certifications.	Educated to Masters Degree level (or equivalent) in a Computer Science, IT or related field. Earned a cloud-specific certification such as: • AWS Certified Solutions Architect (Associate & Professional) • Microsoft Certified: Azure Solutions Architect Expert • Google Professional Cloud Architect • Certified Cloud Security Professional (CCSP) • TOGAF (Enterprise Architecture Framework)

Competencies and behaviours	
Leadership (Influencing)	Decision Making (Influencing)
• Promotes commitment to our PRIDE values, strategy, vision, and direction. • Motivates, inspires, and builds resilience in others by making the vision shareable by everyone, and ensuring that teams are purposefully empowered in order to work efficiently. • Rewards and celebrates success with colleagues and teams. • Future proofs work practices. • Trusts others' judgment and demonstrates radical thinking, including a willingness to try new things, even at the risk of failure.	• Confidently draws reliable conclusions from diverse and sometimes incomplete data. • Proactively sources and refers to how others have tackled similar problems previously. • Considers risks, and consequences, and takes accountability for, the impact the decision has on the business including costs/ benefits. • Thinks ahead, ensuring that the potential of teams and projects are unlocked and making future focused decisions.
Communication (Influencing)	Developing self and others (Influencing)
• Comfortably employs a wide range of communication styles and approaches to suit different situations and audiences (external and internal stakeholders) in diverse situations. • Builds effective two-way communication channels within the business area and	• Assesses the skills and competence of others within the organisation, and recommends development activities. • Brings diverse people together for collaboration, ensuring that employees are open to new ideas and effective collaboration.

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across departments whilst maintaining credibility and securing commitment.	• Gives performance feedback in a timely manner on an informal basis regularly. • Actively shares expertise and learning across the organisation. • Takes personal accountability for success or failure of direct reports.
Collaboration (Influencing)	Delivery (Guiding)
• Blends people into teams, leveraging the use of talents available from any part of the organisation that result in the most innovative solution. • Fosters a sense of energy, ownership, and personal commitment to collaborative work, ensuring that diverse people are able to collaborate openly and honestly as one team even with differing views and perspectives. • Understands the priorities and deeper needs of different stakeholders groups, being sensitive to different experiences. • Supports and enables people to work together to meet objectives.	• Demonstrates the ability to prepare, gain approval of, refine and update business cases that justify the initiation of a project. • Displays the ability to manage stakeholders, taking account of their levels of influence and particular interests. • Ensures actions and decisions within the team are aligned with CPI's priorities. • Anticipates how team objectives must adapt and stretch to respond to change.

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Knowledge and Experience:

Essential:	Desirable:
Demonstrable expertise in cloud platforms like AWS, Azure. Demonstrable experience of implementing data warehousing, data lakes, distributed data processing, building and maintaining data pipelines Strong knowledge of networking, security, and cloud computing principles. Experience with automation tools, DevOps practices like CI/CD, infrastructure as code, Etc Demonstrate designing and building scalable and resilient cloud solutions. Proven experience with ETL tools, API management, and cloud application architecture. Understanding of data security, compliance, and governance. Excellent problem-solving, communication skills, and the ability to gather requirements	Experience with federated learning systems Experience with connecting cloud to real-time control services (e.g. AWS Ginja) Experience with Google Cloud

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Signature of Job Holder By signing this you confirm you have read, understood, and agree to work in alignment with the above job description.
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Printed name	
Signature	
Date	