

# Assoc. Dir. DDIT IES Cloud Engineering

Job ID  
REQ-10034205  
Jan 22, 2025  
India

## Summary

Responsible for designing and developing a cutting-edge AI and Generative AI infrastructure on AWS Cloud platforms and COLO, tailored for pharmaceutical business use-cases. The platform will facilitate pharma research scientists and other business users for early molecule development and other research activities by providing robust, scalable, and secure computing resources.

## About the Role

**Full Job Title:** Assoc. Dir. DDIT IES Cloud Engineering

## ROLE PURPOSE

Responsible for designing and developing a cutting-edge AI and Generative AI infrastructure on AWS Cloud platform and COLO, tailored for pharmaceutical business use-cases. The platform will facilitate Biomedical research Scientists and other business users for early molecule development and other research activities by providing robust, scalable, and secure computing resources.

**Architect and Design:** Lead the design and architecture of an GPU based AI infrastructure platform, with a focus on supporting Generative AI workloads and advanced analytics for pharma business use-cases like BioNeMo, Alpha Fold, ESM Fold, Open Fold, ProtGPT2 and NVIDIA Clara suite.

- **Platform Development:** Work with Biomedical Research scientists to develop and implement technical solutions for ML/Ops (Run:AI) hosted on K8 EKS cluster.
- **Data Management:** Oversee the design and implementation of data storage, retrieval, and processing pipelines, ensuring the efficient handling of large datasets, including genomics and chemical compound data.
- **Security and Compliance:** In collaboration with cloud domain security architects, implement robust security measures for multi-cloud environment and ensure compliance with relevant industry standards, particularly in handling business sensitive data.
- **Collaboration:** Work closely with Biomedical Research & Data scientists and other business stakeholders to understand their needs and translate them into technical solutions.
- **Performance Optimization:** Optimize the performance and cost-efficiency of the platform, including monitoring and scaling resources as needed.
- **Innovation:** Stay updated with the latest trends and technologies in AI and cloud infrastructure, continuously exploring new ways to enhance the platform's capabilities.

**Additional Specifications Required for the Position:**4

- Bachelor's degree in information technology, Computer Science, or Engineering.
- AWS Solution Architect certification – professional
- 8+ years of strong technical hands-on experience of delivering infrastructure and platform services across geographic and business boundaries.
- Experience of working on GPU based AI Infrastructure. Experience in NVIDIA DGX Infra will be highly preferred.
- Deep understanding of Architecture and Design of Platform Engineering products with focus mainly on Data science, ML/Ops and Bio science or Pharma Gen AI foundational models. Experience in NVIDIA BioNeMo or Clara will be highly preferred.
- Extensive experience in building infra solutions on AWS, particularly with services like AWS Bedrock, Amazon Q, SageMaker, ECS/EKS
- Knowledge of containerization and orchestration technologies, such as Docker and Kubernetes.
- Experience with DevOps practices and tools, including CI/CD pipelines, infrastructure as code (IaC), and monitoring solutions.
- Excellent skills in collaborating with business users, Product team, Operationalizing the delivered products and working closely with Security for implementing compliance.
- Good knowledge on implementing well defined & industry standard Change management process for platform & its products. Have a well-structured Use-case onboarding process. Should ensure to have documentation for Platform products and implementations done.
- Experience with DevOps Orchestration/Configuration/Continuous Integration Management technologies
- Good understanding of High Availability and Disaster Recovery concepts for infrastructure
- Ability to analyze and resolve complex infrastructure resource and application deployment issues.

## **KEY PERFORMANCE INDICATORS / MEASURES OF SUCCESS**

- Deliver on time
- Adherence to the Novartis IT quality standards
- Cost optimization
- Completeness and quality of deliverables
- Customer feedback (expectations met/exceeded)
- Application on boarding delivery success

Actively contribute to the business with innovative solutions that show results in the form of cost optimization and / or growth of the business top line revenue

## **LANGUAGES**

- Excellent written, presentation and verbal communication skills
- Languages: Fluent in English (written & spoken), additional languages a plus

## **COMPETENCY PROFILE**

- DevOps, CI/CD
- Technical Leadership
- Scrum Methodology
- Agile Software Development
- System integration and Built
- Problem solving / Root Cause Analysis
- Cloud services monitoring & cost optimization

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