

Assoc. Dir. DDIT IES Cloud Engineering

Job ID
REQ-10034205
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Indien

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

Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a

community of smart, passionate people like you. Collaborating, supporting and inspiring each other.
Combining to achieve breakthroughs that change patients' lives. Ready to create a brighter future together?
<https://www.novartis.com/about/strategy/people-and-culture>

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Technology Transformation
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