

Associate Director - HPC Infrastructure Architect

Job ID

REQ-10088416

Sep 23, 2026

LOC_IN

About the Role

Key Responsibilities:

- Own the HPC reference architecture: cluster topologies, CPU and GPU node designs, high-performance and tiered storage, interconnect fabric, schedulers and the software stack that supports scientific workflows.
- Define the scientific workload placement model - which workloads run on dedicated clusters, which burst to cloud, and which belong on AI platforms - based on performance, data gravity, cost and compliance.
- Produce and maintain capacity plans for compute, accelerators, storage and network, including the power, rack and cooling requirements that data centre and colocation planning depends on.
- Establish data-locality and data-movement principles across instruments, laboratories, storage tiers, archive and cloud, including replication and recovery approaches for irreplaceable scientific data.
- Translate scientific requirements into sizing, benchmarking and procurement input, and validate feasibility before engineering build.
- Maintain architecture decision records for HPC platform choices, connecting each to scientific outcome, cost and lifecycle consequence.
- Define the interface with AI infrastructure so that shared accelerators, storage and data pipelines are used coherently rather than duplicated.
- Ensure HPC designs meet security, quality and regulatory expectations and are operable by Infrastructure Operations after handover.
- Engage scientific communities and research IT partners as the trusted architecture contact for high-performance computing.
- Coach engineers and analysts, and act as a role model for the Novartis Values and Behaviours.

Essential Requirements:

- 8+ years of experience designing, building, or operating large-scale High-Performance Computing (HPC) environments.
- Proven expertise in HPC platform architecture, capacity planning, and multi-cluster infrastructure design.
- Strong experience supporting Linux-based compute clusters in enterprise or scientific computing environments.
- Hands-on knowledge of workload schedulers such as Slurm, LSF, or comparable HPC scheduling technologies.
- Solid understanding of CPU and GPU infrastructure design, performance optimization, and benchmarking methodologies.
- Experience with high-performance storage solutions, parallel file systems, and high-speed networking technologies, including InfiniBand and Ethernet fabrics.
- Knowledge of containerized, reproducible scientific workflows and hybrid or cloud-based HPC environments.
- Familiarity with large-scale data management practices, including data replication, archiving, and infrastructure planning (power, cooling, and rack design); experience supporting research or scientific computing communities is highly desirable.

Desirable Requirements:

- Able to work fluently with scientists and translate research needs into infrastructure terms; rigorous, evidence-based approach to sizing and benchmarking; long-horizon planning discipline; strong collaboration across engineering, facilities and research organizations.
- Fluent English, written and spoken. Additional languages are an asset.

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<https://www.novartis.com/careers/benefits-rewards>

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<https://talentnetwork.novartis.com/network>

Role Requirements

Division

DIV_TO

Business Unit

Information Technology

Location

LOC_IN

Site

Hyderabad (Office)

Company / Legal Entity

IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Functional Area

FCT_IT

Job Type

Full time

Employment Type

Regular

Shift Work

No

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