Associate Director IT Solution Architect (HPC)

Job ID
REQ-10066156

11   06, 2025

Spain

#LI-Hybrid

Primary Location: Barcelona, Spain
Other Locations: Hyderabad, India

Relocation Support: This role is based in Barcelona, Spain. Novartis is unable to offer relocation support: please only apply if accessible.

Imagine leading the architecture of a next generation Statistical Compute Environment that powers modeling, simulation, and quantitative science across Novartis. In this role, you'll shape a high performance, secure, and scalable platform that accelerates decision making in clinical development. You'll collaborate across teams and regions, bring modern workflow orchestration to life, and enable scientists with the right tools to deliver impact at global scale—while growing your career in an inclusive, unbossed culture.

About the Role

Key Responsibilities

- Design and evolve architecture for the Statistical Compute Environment aligned to enterprise standards
- Integrate scientific software and modeling tools for pharmacometrics and quantitative sciences
- Optimize HPC workloads for scalability, extensibility, performance, and business value
- Ensure solution designs trace to functional and non functional requirements
- Administer Unix/Linux systems and batch queue management in HPC environments
- Manage workflow orchestration tools such as Snakemake, Nextflow, and Cromwell
- Operate workload schedulers including SLURM and IBM Spectrum LSF
- Monitor HPC health and utilization using observability tools like Grafana
- Collaborate with security to harden environments and ensure regulatory compliance
- Lead multi cloud integrations and support continuous integration and deployment

Essential Requirements

- Bachelor's degree in computer science, engineering, or information technology
- Experience working in a regulated pharmaceutical information technology environment
- Proven architecture and design experience for high performance computing environments
- Strong proficiency with Unix and Linux administration and advanced scripting
- Hands on experience with scientific software and modeling tools used in pharmacometrics
- Proficiency with workload schedulers such as SLURM and IBM Spectrum LSF
- Experience implementing workflow orchestration tools such as Nextflow, Cromwell, and Snakemake
- Demonstrated experience with cloud architecture, containerization, and Elastic Kubernetes Services.

Commitment to Diversity & Inclusion:

We are committed to building an outstanding, inclusive work environment and diverse teams representative of the patients and communities we serve.

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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Benefits and Rewards: Read our handbook to learn about all the ways we'll help you thrive personally and professionally: https://www.novartis.com/careers/benefits-rewards

Operations

Business Unit
Information Technology

Spain

Barcelona Gran Vía

Company / Legal Entity
ES06 (FCRS = ES006) Novartis Farmacéutica, S.A.
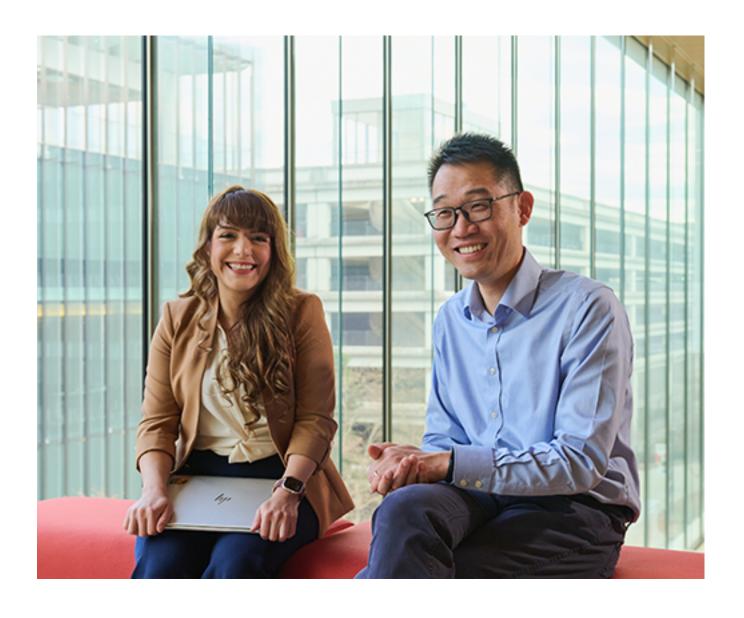
Alternative Location 1
Hyderabad (Office), India

Functional Area
Technology Transformation

Job Type
Full time

Employment Type
Regular

Shift Work
No

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