

Assoc. Dir. - HPC Infrastructure Sr. Engineer

Job ID

REQ-10050545

Apr 30, 2025

Czech Republic

Summary

Novartis is unable to offer relocation support for this role: please only apply if this location is accessible for you.

The HPC Infrastructure Services (Senior) Engineer executes and ensures service deployments and management to enable modern delivery flows of High-Performance Computing solutions.

About the Role

Key Responsibilities:

- High Performance Computing (HPC) Specialist for Novartis Core Infrastructure Services team performs the operational health deployment and lifecycle of HPC technology
- Designs innovative solutions utilizing projects and qualification frameworks to run and optimize our complex infrastructures.
- Act as technical and organizational escalation point during major and critical incidents.
- Responsible to track suppliers and partner for effective and efficient delivery of projects
- Contributes to service / platform strategy development

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.

What you'll bring to the role:

- Associate's degree in computer science or related field, or equivalent industry experience and 6+ years' IT experience, of which at least 3 in an HPC/scientific computing environment. Worked in environments with high speed / low latency network (e.g. InfiniBand)
- Experience designing and building infrastructure within a public cloud platform (e.g. AWS, GCP or Azure) as they relate to HPC workloads. Strong knowledge of Unix systems performance tuning. Working knowledge of DevOps (e.g. Ansible, Chef, CICD etc.) tools and practices
- Hands-on experience with system administrative task in Linux environment, and fluency in scripting (shell scripting in bash required, Python knowledge would be advantageous)
- Can build software from sources including knowledge of build systems (e.g. Make, CMake...). Extensive knowledge of one or more HPC scheduling mechanisms (e.g. Grid Engine, Slurm, LSF... etc.). Experience with shared memory and/or GPU and/or distributed memory computation jobs
- Extensive knowledge of one or more HPC cluster management software packages (e.g. Bright Cluster

Manager / Base Command Manager, xCat, OpenHPC... etc.). Solid knowledge of computer architectures and multi-threaded/parallel processing applications. Hands-on knowledge of network- and distributed filesystems (e.g. NFS, GPFS, Gluster, BeeGFS, Lustre or other parallel file systems, etc.)

Desirable requirements:

- Desired: experience setting up, maintaining, and tuning infrastructure for AI/ML workloads
- Desired: experience with HPC infrastructure supporting a scientific / research / pharmaceutical / bioinformatics / cheminformatics environment

You'll receive (applicable only to CZ):

Monthly pension contribution matching your individual contribution up to 3% of your gross monthly base salary; Risk Life Insurance (full cost covered by Novartis); 5-week holiday per year; (1 week above the Labour Law requirement) ; 4 paid sick days within one calendar year in case of absence due to sickness without a medical sickness report; Cafeteria employee benefit program – choice of benefits from Benefit Plus Cafeteria in the amount of 12,500 CZK per year; Meal vouchers in amount of 105 CZK for each working day (full tax covered by company); Public Transportation allowance; MultiSport Card. Find out more about Novartis Business Services: <https://www.novartis.cz/>

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to learn more about Novartis and our career opportunities, join the Novartis Network here: <https://talentnetwork.novartis.com/network>

Accessibility and accommodation:

Novartis is committed to working with and providing reasonable accommodation to all individuals. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to receive more detailed information about the essential functions of a position, please send an e-mail to and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

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>

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: <https://talentnetwork.novartis.com/network>

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>

Division
Operations
Business Unit
CTS
Location
Czech Republic
Site
Prague

Company / Legal Entity
CZ02 (FCRS = CZ002) Novartis s.r.o
Alternative Location 1
Hyderabad (Office), India
Alternative Location 2
INSURGENTES, Mexico
Functional Area
Technology Transformation
Job Type
Full time
Employment Type
Regular
Shift Work
No
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