



## **Job Description: HPC Engineer**

HPC Engineer is responsible to design, implement and support HPC services including Compute, Network, Storage on AWS. Collaborate with the global research team to deliver healthy services adhering to standards.

### **Experience:**

- 2-5 years of experience in High-Performance Computing System Administration
- Minimum of 2+ years of customer-facing experience in HPC and AWS

### **Mandatory Skills:**

- Working knowledge of complete HPC stack in building a high availability infrastructure
- Demonstrated experience in AWS Cloud platform
- Strong understanding and hands experience in deploying, troubleshooting issues with CPU, GPU, Networking, Storage, Database services on AWS
- Experience in designing & implementing of HPC Clusters using AWS Parallel cluster
- Experience in DevOps tools like Ansible Tower, Bitbucket, Terraform, and CloudFormation, CodeBuild, CodePipeLine etc.
- Experience in Linux Administration various distributions like Redhat, Amazon, CentOS
- Team player with a willingness to work in 24x7 environment
- Strong verbal and written communications skills are a must
- Experience with job schedulers like SLURM, SGE, LSF, PBS, Torque.
- Experience with compilers and libraries such as MPI, GCC, CUDA etc.
- Experience with NiceDCV, TurboVNC, TigerVNC etc
- Experience with scripting (bash, Python, PowerShell, etc.).
- Experience with data life cycle management both on-prem, cloud, and hybrid platforms
- Experience in Filesystems like NFS, Lustre/GPFS, etc.,

### **Optional Skills:**

- Docker, Singularity, Kubernetes
- Knowledge of distributed computing
- Ansible, Jira, Confluence, Service Now, Excel, Presentation Skills
- Worked on building clusters with individual machines (not a service like EMR etc.)

### **Certifications (Desirable)**

1. AWS Certified SysOps Administrator
2. AWS Certified DevOps Engineer
3. Linux Certified Administrator

### **Responsibilities:**

- Work in coordination with other internal and customer teams to ensure the infrastructure fully and effectively supports current and planned application systems.
- Troubleshoot Compute, OS, Networking, Storage, and Software issues.
- Adhering to pre-existing standards of the customer environments
- Develop tools to deploy, manage, monitor, and troubleshoot HPC systems at scale.
- Maintain asset lists of all servers, applications, and licensing ensuring compliance.
- Maintain security standards according to internal policies.
- Execute the day-to-day activities of the Incident Management process
- Manage and support user requests in accordance with SLA.
- Develop tools to deploy, manage, monitor, and troubleshoot HPC systems at scale.



**Education:**

B.E./B.Tech. or higher degree in Computer Science or other equivalent engineering disciplines from a reputable institution.