



Example of HPC Engineer Job Description

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Our company is growing rapidly and is looking to fill the role of HPC engineer. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

Responsibilities for HPC engineer

- Work closely with business partners to establish functional and performance requirements
- Design and build configuration management leveraging DSC/Chef
- Streamline deployment of infrastructure into consumable services through automation and self-service
- Automation of everything (Infrastructure-as-Code methodologies)
- Help design and build CI pipelines around this automation
- Build orchestration to loosely couple complex and heterogeneous systems
- Design and build IaaS control plane and compute fabric
- Documentation for handoff to operational teams
- Serve as a principal collaborator on major projects, and be responsible for fostering broader community-wide benchmarking efforts where organizations outside of NERSC will use NERSC benchmarks and report back results
- Develop and optimize codes for HPC architecture, developing libraries and tools for Research team

Qualifications for HPC engineer

- Provide rapid response and support for stakeholders
- C/C++ programming skills and/or Perl or Python scripting
- HPC cluster building and/or cluster provisioning
- MPI and other parallel programming models
- Hands-on server/hardware debugging

