

Senior HPC/HEC *NIX System Administrator/Engineer

Instrumental is seeking highly qualified and motivated individuals interested in joining an enthusiastic team to provide all encompassing HPC/HEC and infrastructure system support services to the NOAA R&D HPCS program site in Princeton NJ.

Job Description:

Assume administration responsibilities for HPC/HEC computational resources as part of the *NIX System Administration and Engineering team including HPC/HEC support, configuration/change management processes and documentation, and software deployment on HPC/HEC systems. Provide general operating system maintenance and system administration support including the installation, testing, and integration of periodic vendor enhancements, patches and upgrades. Identify usage barriers for provision of timely and proactive solutions. Implement automated and/or autonomic monitoring and support tools for realization of higher quality services, increased efficiency and enhanced productivity. Perform related duties as assigned by management.

Required Skills:

- BS degree or higher in the physical sciences, computational sciences or related engineering fields is required. Professional experience may be considered in lieu of minimum educational requirements.
- Minimum 10+ years experience providing HPC/HEC system administration and engineering services.
- Must have expert administration and engineering knowledge of *NIX operating systems as well as associated tools and services used in HPC/HEC environments such as GPFS. Must have expertise in several scripting languages (e.g. Shell, Perl, Python, and Ruby).
- Experience in design, installation and configuration/change management of HPC/HEC systems.
- Demonstrable experience in performing advanced performance/capacity analysis and tuning.
- Practical experience in the C/C++ and Fortran programming languages.
- Additional experience with multi-threading and parallel processing tools and environments as well as disk and archive storage management systems and tools in multi-petabyte data environments.
- Excellent written & verbal communication, interpersonal, and team interaction skills.
- Must also have excellent organizational skills with the ability to deliver on time, manage multiple efforts and work with minimal supervision.

Desired Skills:

- Prior experience in HPC/HEC environments supporting large computational systems for scientific applications in agencies such as DoD, NASA, or NOAA.
- Previous experience leading projects and/or a supervisory role with substantial technical responsibilities.
- Demonstrated ability to proactively learn, adapt to and use new HW/SW technologies.
- Experience developing/implementing tools for increased service, quality, and productivity.
- Record of professional recognition through peer reviewed publications; and recognized as an established authority & contributor in the field of HPC/HEC System administration and engineering.

Qualified applicants may be subject to a security investigation and must meet minimum eligibility requirements for access to classified information. U.S. Citizenship is required.

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