



POSITION AVAILABLE

POSITION TITLE:	Analyst, IT (High Performance Computing)
JOB CODE:	2423
JOB BAND / LEVEL:	C
JOB FAMILY:	08 (Information Technology)
WORK SCHEDULE:	Normal hours worked
DEPARTMENT CONTACT:	Stephen Galla (galla@duke.edu) 919-668-4236

POSITION SUMMARY:

High Performance Computing is an important component of shared services provided by Duke's Office of Information Technology (OIT). Work in this position involves planning, implementing, and supporting Duke's Shared Cluster Resource (DSCR) and other high performance computing environments in support of research computing. The DSCR is a High Performance Computing Cluster (HPCC) designed for parallel and single-threaded jobs. The DSCR runs Linux and Sun Grid Engine (batch scheduler). This position reports to the Sr. Manager of Collaborative Systems and will work closely with OIT's management, systems administrators and researchers to provide operational support of high performance computing.

A working knowledge of Red Hat Enterprise Linux (RHEL) or CentOS is required. Familiarity with programming languages (including Shell, Perl, Java, PHP, Ruby) is preferred.

DUTIES & WORK PERFORMED:

- Administration of Duke's Shared Cluster Resource (DSCR) and other high performance computing environments.
- Interfacing with peer administrators supporting Linux based systems.
- Interfacing with researchers to plan and implement participation within the cluster.
- Proactively initiate measures to ensure operational availability and performance of the DSCR.
- Respond, troubleshoot, resolve and document system incidents.
- Maintain monitoring, logging, backup and restoration of the DSCR infrastructure.

SOFT SKILLS:

- Ability to work within a team in a demanding, fast-paced environment.
- Must have good planning and organizational skills, strong verbal and written communication skills.

- Highly motivated individual able to drive projects to completion.
- Ability to handle multiple concurrent activities and have a flexible, positive attitude.
- Demonstrated ability to track, organize, prioritize and execute project and operational workloads.
- Excellent analytical and problem solving skills.

QUALIFICATIONS & EXPERIENCE:

The most qualified candidates will exhibit demonstrated ability or experience in the following areas.

- Solid working knowledge of Red Hat Enterprise Linux (RHEL) or CentOS, networking and account management.
- Experience packaging, installing and supporting 3rd party applications.
- Experience with scripting and programming languages (Shell, Perl, Java, PHP, Ruby).
- Experience with kick start and the management of a large number of systems.
- Experience with NFS and NIS.
- Experience with NetApp filers.
- Ability to write end-user documentation for non-technical staff.
- Experience developing project plans and time estimates.
- Proven design and debugging skills.
- Familiarity with SGE (Sun Grid Engine) and other distributed computing tools.

EDUCATION & EXPERIENCE:

Required:

- Equivalent combination of relevant education and experience to a BA or BS in Math or Computer Science or related field.

DATE OF POSTING:

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