Job Title
Lead of Storage Administration

Location
- Cambridge, MA; Hybrid
- Requires occasional travel to our data center in Holyoke, MA (typically every other month)

Position Type
Full-time

Job Summary
The Lead of Storage Administration will serve MIT's Office for Research Computing and Data (ORCD) under the Platforms, Infrastructure and Data services team, supporting MIT's research computing community. The position requires a strong technical background, with hands-on experience in managing high performance computing clusters (HPCC) and storage. The ideal candidate is passionate about service delivery and open source solutions, and understands the storage support and engineering process from architecture and design; maintenance and improvement of existing HPCC and storage; and retiring end-of-life systems. The incumbent will play a vital role in supporting our systems located at the Massachusetts Green High Performance Computing Center (MGHPCC), and will work closely with multiple teams in this capacity.

Key Responsibilities

Support/Operations (50%):
- Plans and prioritizes storage solutions and data migration activities, including troubleshooting complex issues in coordination with vendors and technical teams
- Possesses ability to navigate issue resolution within the entire infrastructure stack
- Implements monitoring to ensure availability and performance of storage infrastructure
- Executes capacity planning and performance analysis of storage workloads, identifying gaps and recommending and implementing improvements
- Maintains reporting to support cost recovery
- Ensures appropriate vendor contracts are in place
- Provides oversight to contractor and vendor staff

Engineering (30%):
- Creates and maintains documentation for storage systems, configurations and procedures
- Recommends and implements storage strategies, policies, and procedures to ensure optimal performance and availability
- Architects, implements and deploys cost effective, tiered storage solutions, supporting current and future HPC workloads

Projects and User Engagement (20%):
- Coordinates project planning and requirements gathering with technical teams and end users
- Plans and facilitates meetings and presentations for end users

Required

Education
- Bachelor's degree in computer science, bioinformatics, or a related field

Experience/Skills
- 5+ years experience within an HPC/research computing environment (Linux, Unix) and managing enterprise and open source storage systems
- Advanced experience with Linux (RHEL), xCAT, Salt, KVM, Qemu, Slurm
- Advanced experience with ZFS, XFS, LVM, NFS, SMB, Ceph, RBD
- Has migrated petabytes of data before
- Comfortable working with wiki and ticketing tools such as Confluence, Jira, ServiceNow or equivalent
- Ability to communicate and collaborate effectively with both technical teams and non-technical clients and partners

Preferred
- 3+ years experience within a dev ops or application engineering environment
- Multipath, SAS, SCSI fencing, iDRAC, IPMI, Pacemaker, Corosync
- Has worked with backup solutions for example TSM
- Completion of Red Hat Certified System Administrator
- Can compile and troubleshoot Linux source code and packages
- Knowledge of storage and data management public Cloud services such as S3, EBS or FSx for Lustre

This is a full-time (40 hours per week) position. A hybrid schedule, with both remote and on-campus work, is available, with a minimum of three days each week on-campus.

Employment is contingent upon the completion of a satisfactory background check.

To apply, view the Office of Research Computing and Data Lead of Storage Administration posting (Job Number: 23896) on MIT's job application portal.