

## MIT Job Description

<b>Job Title:</b> Systems Administrator	<b>Position Title:</b> Systems Engineer
<b>Reports to:</b> Senior Associate Director, Infrastructure, Operations & Security	<b>% Effort or Wkly Hrs:</b> 100%
<b>Department:</b> Sloan Technology Services	<b>Prepared by:</b> Will Hedglon

### Position Overview:

The Sloan Technology Services (STS) Infrastructure, Operations & Security (IOS) team is seeking an analytical and flexible Systems Engineer to support the MIT Sloan community. The successful candidate will play a key role designing, implementing and maintaining systems with a Linux operating system. S/he will be part of a multi-disciplinary team that delivers high quality, effective and secure IT capabilities to the Sloan community.

### Principal Duties and Responsibilities:

- Will lead efforts to build, support and maintain IT capabilities that require a Linux operating system. These duties include the design, installation, configuration & administration of systems and components. These highly customized systems support world-class research activities and require a significant amount of end user interaction.
- Will directly support STS's web infrastructure. These duties include web application administration (Apache, Drupal, WordPress), configuring F5 LTM for load balancing and security & database maintenance.

### Secondary Duties and Responsibilities:

STS IOS is a small (5 person) team that supports a dynamic, extremely fast paced environment. A successful candidate will be expected to provide secondary support for:

- Windows system administration and maintenance
- Storage (Dell/EMC/Tegile) platforms
- Virtual Desktop Infrastructure (VMware Horizon) administration
- Information security scanning and vulnerability remediation
- High performance, research computing platforms

Candidate will be expected to quickly master new technologies to support end user needs.

### Supervision Received:

This position reports to the Senior Associate Director of Infrastructure, Operations & Security.

### Supervision Exercised:

None

### Qualifications & Skills:

#### REQUIRED

- BS in Information Technology, Computer Science or similar field.
- Minimum of one year supporting Linux operating systems.
- Demonstrable proficiency with:
  - Linux administration (ideally CentOS / SELinux)

- Scripting language (bash / python)
- Web application (WordPress / Drupal) administration
- Database (MariaDB / MySQL) administration and optimization
- Configuration management (puppet / ansible / chef / salt)
- Demonstrable ability to perform root cause analysis and think laterally.
- Must be a self-starter with good interpersonal skills.
- Must be motivated to learn new technologies.
- Excellent oral communications skills. It is very important that the candidate demonstrate they can explain complex concepts and present information to individual researchers and small groups, such as in a classroom setting.
- Excellent written communication skills, including the ability to create clear accurate documentation of processes, preparing training materials, and documenting customer needs and requirements.

#### PREFERRED

- Three years supporting Linux operating systems.
- Experience working with faculty and students at a research university.
- Demonstrable experience with:
  - Networking (OSI model, routing/switching, VPN tunneling)
  - Infrastructure scanning and reporting (NESSUS / OpenVAS / Nagios)
  - Configuration management (puppet / ansible / chef / salt)
  - Log aggregation (ELK / Splunk)
- Information security risk assessment and mitigation experience.
- Experience working in a team-oriented, collaborative environment.
- Operating within a work management / ticketing system.
- Active IT certifications.

Will share after hours monitoring and response duties for critical emergencies.