



MIT Position Description

Job Title: Mgmt 3, IT Generalists	Position Title: Lead Site Reliability Engineer
Pay Grade: 11	% Effort or Wkly Hrs: 100%
Department: Office of Research Computing and Data	Reports to: Director of Platforms, Infrastructure, and Data Services
Prepared by: Renée Hellenbrecht	Date: April 3, 2025

Position Overview

The Office of Research Computing and Data (ORCD) is seeking a hands-on **Lead Site Reliability Engineer** to build and advance SRE functions in collaboration with a diverse team of systems engineers. This role will play a pivotal part in the strategic transformation of infrastructure planning, design, delivery, and operations in support of ORCD's continued growth.

The successful candidate will possess a deep and broad expertise across multiple technical domains, including Linux, networking, and virtualization. The role requires the ability to drive innovation in system architecture and lead transformative design initiatives from the ground up.

Additionally, the ideal candidate will exhibit strong analytical and structured problem-solving skills, coupled with excellent communication and inter-personal abilities. This position will be instrumental in building and fostering cross-functional collaborations between engineering and operations teams across MIT, ensuring alignment with institutional objectives and long-term strategic initiatives.

The Office of Research Computing and Data at MIT serves every part of the Institute. It supports research missions ranging from breakthroughs in fusion power to cyber defense research and works closely with research at all five of MITs schools and the MIT College of Computing. This helps create a uniquely rewarding environment in which new research workloads leveraging



advanced research computing tools appear regularly. ORCD is often at the heart of delivering services to support evolving needs as efficiently as possible.

Principal Duties and Responsibilities (Essential Functions**):

- Drive transformation of traditional system engineering towards SRE functions.
- Design scalable infrastructure and enforce operational best practices for reliability.
- Develop automated testing frameworks to ensure quality and drive continuous process improvements.
- Own monitoring to detect issues, implement alerting for timely incident response, and analyze data for optimization.
- Collaborate with a team of systems engineers rebuilding and maintaining key infrastructure services used across MIT.
- Lead and own incident investigation and resolution, maintain response playbooks, and collaborate with engineering to mitigate risks.
- Work with ORCD leadership, senior engineers and research community facilitation to develop and transform IT infrastructure into compelling products and services.
- Build and maintain roadmaps for next generation of infrastructure services provided by ORCD.
- Supervises, mentors, and directs staff and contractors.
- Performs other duties as assigned.

Supervision Received:

This position reports to ORCD’s Director of Platforms, Infrastructure, and Data Services.

Supervision Exercised:

This position supervises, mentors, and directs staff and contractors.



Qualifications & Skills:

MINIMUM REQUIRED EDUCATION AND EXPERIENCE:

Education

- Bachelor's degree in engineering, computer science, related field or equivalent industry experience

Experience/Skills

- At least 7 years of experience in site reliability engineering or a related field
- Deep understanding of Linux, LDAP, virtualization & config management in a large Linux-based engineering environment
- Advanced experience with network services like NAT, VLANs, subnets, DNS, DHCP, subnet manager
- Experience with automation, monitoring platforms and DevOPS
- Can compile and troubleshoot Linux source code and packages
- Expertise in monitoring and alerting systems, incident management processes, and disaster recovery planning.
- Troubleshoots complex system issues in coordination with internal teams and vendors
- 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
- Implementing reliable and scalable automation solutions using out of box thinking, delivering high quality end user experiences
- Strong analytical and problem-solving skills with a focus on root cause analysis and mitigation
- Excellent communication and teamwork skills with the ability to collaborate effectively across engineering teams

PREFERRED EDUCATION AND EXPERIENCE:

- 10+ years of experience in site reliability engineering
- Experience working within an HPC/research computing environment



- Ability to analyze network traffic to identify technical issues and suspicious activities

Hours, Location, Salary

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 3 days each week on-campus. This role requires occasional travel to our data center in Holyoke, MA (typically every other month).

The role is an [MIT salary grade 11](#), with a salary range of \$140,000 – \$165,000 annually.

How to Apply

Employment is contingent upon the completion of a satisfactory background check. We are unable to sponsor a visa for this role, so applicants must already be authorized to work in the United States.

Apply through [the MIT Careers website](#) (Job ID: [24909](#)). Please include both a resume and a cover letter with your application.