Opportunity Title: Linux Administrator R&D - Post Bachelor's
Opportunity Reference Code: ORNL16-08-ITSD

Organization	Oak Ridge National Laboratory (ORNL)
Reference Code	ORNL16-08-ITSD
Description	BA Degree in Computer Science or related field.

Purpose
The Information Technology Services Division in the Computing and Computational Sciences Directorate at the Oak Ridge National Laboratory is seeking applicants for a Linux Systems Engineer position in the Research and Development Linux Systems Support Team. The R&D Linux Systems Support Team exists to facilitate lab goals through systems engineering, integration and support for the research community at ORNL. We run mid-range clusters, servers, workstations and other services where science happens at the lab.
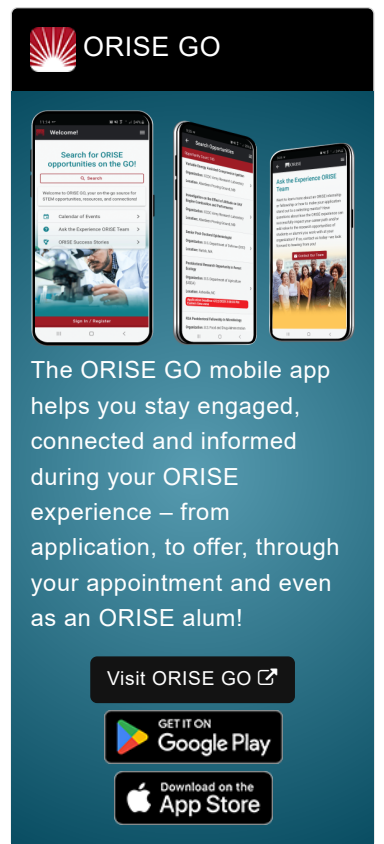
Major Duties/Responsibilities
Primary duties include:
- Design, install, configure, and maintain Linux systems, Storage, Backup, HPC clusters and application software in support of research needs.
- Ensure the secure and effective operation of computing systems through compliance with ORNL procedures and IT Internal Operating Procedures.
- Troubleshoot system problems quickly and effectively.
- Work with other systems engineers and vendors to resolve hardware and software issues.
- Answer helpline calls in addition to primary project work.
- Develop and document procedures for startup, execution, shutdown, backup, and recovery.
- Monitor systems performance.
- Install and configure software, both commercial packages and various open source packages.
- Maintain documentation/notes on software builds and installs.
- Work with scientific users to determine needs, and balance needs against cyber requirements to provide a solution that meets the requirements of both.
- Port, modify and write system management, logging and scientific tools.
- Support data storage systems and backup services.
- Assist users with use of computing systems.
- Promote operational efficiency and reliability through automation.
- Off hours support during maintenance windows and on-call support rotation may be required.

Qualifications   Qualifications Required
- Master's Degree in Computer Science or related technical subjects.
- Some exposure managing UNIX/Linux Systems.
- Red Hat, SuSE, Debian or comparable administration exposure.
- Excellent interpersonal skills suitable for user support and ability to work well with peer system administrators.
- Moderate fluency in at least one scripting language such as Bash, Python, Ruby, Perl or equivalent.
- Demonstrated capabilities to work in a dynamic environment and translate

user needs into actionable project plans and see those plans through execution while balancing needs for short-term, high-priority tasks.
- Excellent written and verbal communication skills.

- Ability to work independently and demonstrated analytical and problem solving skills.
- Must be able to obtain and maintain a DOE security clearance.

Applicants cannot have received the most recent degree more than three years prior to the date of application and must complete all degree requirements before starting their appointment.

This ORNL Postgraduate Research Associates Program is administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education (ORISE).

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree received within the last 36 month(s).
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Engineering** (1 👁)

Affirmation

I certify that I have completed coursework towards a degree in science, technology, engineering, mathematics, or a related field.