Opportunity Title: ORNL Linux/HPC System Post Bachelor Associate
Opportunity Reference Code: ORNL16-41-NCCS

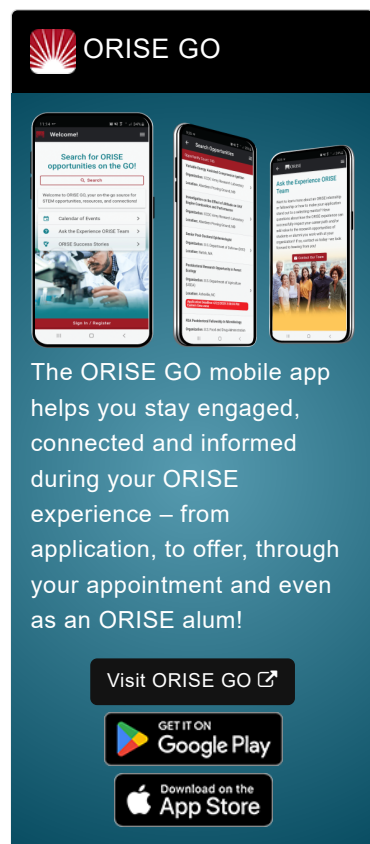|	
Organization	Oak Ridge National Laboratory (ORNL)
Reference Code	ORNL16-41-NCCS

Description The National Center for Computational Sciences (NCCS) in the Computing and Computational Sciences Directorate at Oak Ridge National Laboratory (ORNL) is seeking qualified individuals to apply for a Linux/HPC System Administrator role. The candidate will work within the HPC Operations group to support all activities of NCCS. ORNL's Leadership Computing Facility is home to Titan, currently one of the world's most powerful supercomputers.

Major Duties/Responsibilities

• Monitor and perform daily administration of Linux-based systems, services, and infrastructure

• Monitor system performance and capacity.

• Troubleshoot, diagnose, and resolve application/hardware related issues.

• Manage hardware/software configurations.

• Provide liaison with remote users, operations personnel, etc.

• Install, configure, support, and maintain systems and application software on Linux platforms (Red Hat Enterprise Linux, CentOS).

• Develop and maintain system support procedures and documentation

• Analyze and solve conceptual and complex problems/situations

• Perform scripting/automation work (shell scripting, Perl, Python, etc.)

• Perform capacity planning including tracking historical usage, monitoring current usage, projecting future resource usage and assessing overall resource demands. Monitor and track performance, prepare status reports and recommendations for improving performance and increasing business continuity.

• Maintain recent levels of software and firmware and apply appropriate patches or updates as necessary or recommended by the vendor. Stay current with new server and storage technologies and identify options for upgrades and enhancements to the environment.

• Provide and maintain detailed technical documentation and diagrams of NCCS infrastructure/systems. Define and implement procedures and standards surrounding system administration duties.

Qualifications • Bachelor's degree in Computer Science or related field.
• A minimum 1 year of experience with UNIX/Linux system administration is required.
• Strong communication skills.
• Ability to communicate technical issues to both technical and non-technical people.

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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 appointment is offered through the ORNL Postgraduate Research Associates Program and is administered by ORAU through the Oak Ridge Institute for Science and Education (ORISE).

Eligibility Requirements

- **Degree:** Bachelor's Degree received within the last 36 month(s).
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (16 👁)

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

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