

**Opportunity Title:** ORNL HPC Linux Administrator Post-Bachelor

**Opportunity Reference Code:** ORNL17-15-NCCS

**Organization** Oak Ridge National Laboratory (ORNL)

**Reference Code** ORNL17-15-NCCS

**Description** The National Center for Computational Sciences (NCCS) at Oak Ridge National Lab (ORNL), which hosts several of the world's most powerful computer systems, is seeking highly qualified individuals to play a key role in improving the security, performance, and reliability of the NCCS computing infrastructure. This includes supporting one of the fastest supercomputers in the world, Titan. Titan is one of the scientific research community's most powerful computational tools for exploring solutions to some of today's most challenging problems.

The candidate will work in the Infrastructure team within the HPC Operations group to support all activities of the supercomputer center.

Major Duties/Responsibilities:

- Work with the team to define and implement best practices and standards within the organization
- Automate systems administration tasks utilizing open source configuration management tools
- Tune operating systems and applications to increase performance and reliability of services
- Diagnose system operational problems quickly and effectively
- Document system administration procedures for routine and complex tasks
- Participate in an on-call rotation providing 24-hour, 7-day support and off-hours maintenance windows
- Coordinate with vendors to resolve hardware and software problems

**Qualifications** Basic Qualifications

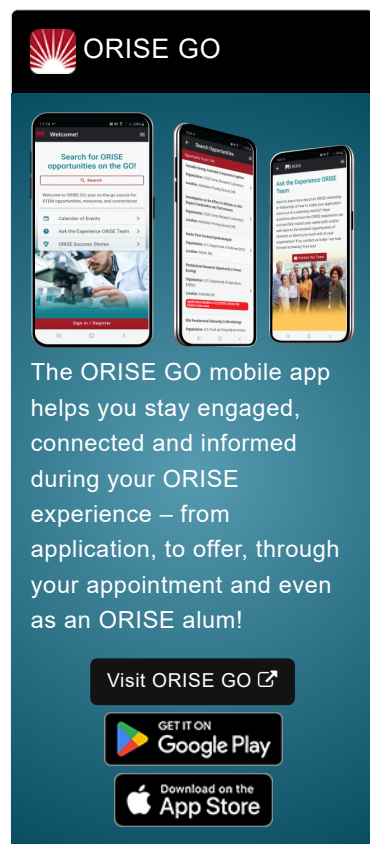
- Bachelors degree in Computer Science or related field

Preferred Qualifications:

- Solid understanding of networked computing environment concepts
- Ability to develop and maintain programs and scripts that aid in the operation and automation of administrative tasks using various shell and scripting languages (bash and Python are our tools of choice)
- Ability to identify requirements and to define, plan, and implement requisite solutions
- Ability to plan, organize, prioritize tasks, and complete assigned projects with minimal supervision
- Experience with continuous integration and continuous deployment software methodologies and how they apply to systems engineering
- Experience with Python

Special Requirement

This position requires the ability to obtain and maintain a clearance from the Department of Energy. As such, this position is a Workplace Substance Abuse program (WSAP) testing designed position which requires passing a pre-placement drug test and participation in an ongoing random drug testing program in which employees are subject to being randomly selected



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for testing. The occupant of this position will also be subject to an ongoing requirement to report to ORNL any drug-related arrest or conviction or receipt of a positive drug test result.

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 Participation Program and is administered by ORAU through 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](#))

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

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