

**Opportunity Title:** ORNL HPC Cyber Security Engineer Post-Bachelor

**Opportunity Reference Code:** ORNL17-16-NCCS

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

**Reference Code** ORNL17-16-NCCS

**Description** The National Center for Computational Sciences (NCCS) in the Computing and Computational Sciences Directorate at Oak Ridge National Laboratory is seeking highly qualified individuals to play a key role in improving the security, performance, and reliability of the NCCS computing infrastructure. The ideal candidate is a self-starter that can both see the big picture as well as pay attention to detail. The candidate will focus on cyber security operations in the Cyber Security team within the HPC Operations group to support all activities of the supercomputing center.

**Major Duties/Responsibilities**

Duties of the position include, but are not limited to:

- Interpreting cyber security policy
- Performing assessments and verifying cyber security policy
- Analyzing, triaging, and responding to system and network events
- Installing, maintaining, and monitoring IDS/IPS
- Configuring firewalls
- Generating cyber security operational summaries and reports
- Performing host and network forensics
- Configuring and maintaining event correlation and reduction tools
- Automating cyber security tasks
- Developing and porting cyber security utilities
- Scanning networks for vulnerabilities
- Responding to system vulnerabilities and coordinating system patches and updates
- Performing approved penetration testing and verification

Documenting cyber security procedures

- Participating in a 24-hour, 7-day on-call incident response rotation

**Qualifications** Basic Qualifications

- Bachelor's Degree in Computer Science or related field

Preferred Requirements:

- Understanding of cyber security concepts, best practices, and tools.
- Experience hardening UNIX/Linux environments
- Solid understanding of networked computing environment concepts
- Ability to communicate effectively and work well in a team environment
- Natural ability to grow new and emerging technologies
- Experience deploying and maintaining UNIX/Linux environments
- Experience with IDS/IPS
- Experience in a high-performance computing environment



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- Experience using monitoring software or appliances for cyber security
- Experience using analysis software or appliances for cyber security
- Experience with incident response and engaging in forensics
- Programming and advanced scripting experience
- Experience in network, application, and/or security architecture and design
- Familiarity with common protocols such as: DNS, DHCP, LDAP, SNMP, SMTP, HTTP, SSL
- Ability to perform under pressure and in a fast-paced, dynamic environment

**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 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.

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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 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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