

**Opportunity Title:** ORNL Cloud Computing Post-Master's Research Associate

**Opportunity Reference Code:** ORNL-16-40-CSMD

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

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**Description** The Computer Science and Mathematics Division, in conjunction with the Extreme Scale Systems Center is seeking a recent Master's graduate to work on cloud computing for diverse scientific workloads. The project is focused

on ways to create user customizable computing environments for high-performance computing (HPC) using emerging technologies from cloud computing. This research leverages isolation mechanisms at the compute, network and storage system layers to create secure and high-performance computing enclaves.

The selected candidate will have a strong background in system software and system configuration management. The candidate will be expected to work in a team and contribute to the design and implementation of research prototypes related to cloud computing. The candidate will play an important role in integrating and extending cloud technologies, which will require familiarity with several configuration/testing tools and system management infrastructure.


Master's Degree in Computer Science or related field.

**Qualifications** A successful candidate should have a strong background in Linux and cloud computing technologies, specifically Linux containers and virtualization (e.g., Docker, LXC/LXD, KVM). Additionally, the candidate will have familiarity with system and configuration management tools used to setup and deploy cloud based computing environments (e.g., OpenStack, Kolla, Puppet, Ansible).

Applicants cannot have received the most recent degree more than five 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**

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Master's Degree received within the last 60 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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