

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

**Opportunity Reference Code:** ORNL18-29-BSD

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

**Reference Code** ORNL18-29-BSD

**Description** The Biosciences Division (BSD) at Oak Ridge National Laboratory (ORNL) is focused on advancing science and technology to better understand complex biological systems and their relationship with the environment. BSD has expertise and special facilities in genomics, computational biology, microbiology, microbial ecology, biophysics and structural biology, and plant sciences. Research experiments include laboratory and field experimental data acquisition and management using the Nautilus laboratory information management system (LIMS).

The Bioinformatics group develops and applies computational methods to explore biological processes at all levels of life systems organization from atomic to ecological. Management of experimental data, and its automation, is becoming increasingly important as the scale of experiments grows and diversifies. This position is responsible for support and operation of the Nautilus LIMS and its development as needed in conjunction with existing and new projects.

**Major Duties/Responsibilities:**

Responsible for development and support of LIMS system and associated database and web interface

Main point of contact for all LIMS support issues

Maintain up-to-date knowledge of Nautilus and LIMS best practices

Develop and maintain documentation describing the design of the LIMS including the overall architecture, all interfaces and code

Develop and maintain user documentation and training in best practices

As laboratory and sample processing procedures change, or new ones are developed, design and modify the LIMS system as needed

Collaborate with internal and external researchers to analyze and interpret LIMS data

**Qualifications** Master's degree in bioinformatics, computer science, mathematics, statistics or related discipline

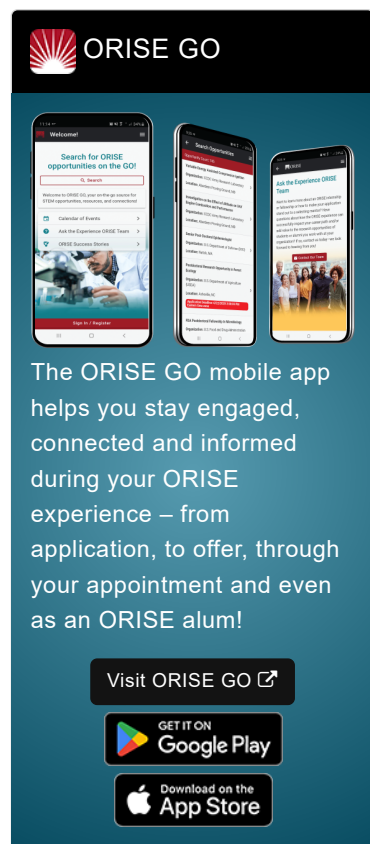
Applicants must have received their Master's degree within five years of this application and must complete all degree requirements before starting their appointment.

**Preferred:**

Computer programming experience preferably in C++ or Java


Web app experience using JSP


Relational database experience using SQL preferably Oracle




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Proficiency with word processing, web, and graphic design software

Excellent written and oral communication skills and the ability to communicate in English to a scientific audience

Experience in biology, genomic sciences, or biochemistry

Experience with LIMS implementation or configuration

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

- Eligibility**

**Requirements**
- **Degree:** Master's Degree received within the last 60 month(s).
  - **Discipline(s):**
    - **Computer, Information, and Data Sciences** ([3](#) 👁)
    - **Life Health and Medical Sciences** ([2](#) 👁)
    - **Mathematics and Statistics** ([4](#) 👁)

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