

Opportunity Title: ORNL Scientific Applications Programmer Post-Bachelor's Research Associate
Opportunity Reference Code: ORNL20-08-ESD

Organization Oak Ridge National Laboratory (ORNL)

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Description Oak Ridge National Laboratory (ORNL) is the largest U.S. Department of Energy (DOE) science and energy laboratory, conducting basic and applied research to deliver transformative solutions to compelling problems in energy, environment, and security.

The Environmental Sciences Division (ESD) of ORNL is seeking a scientific programmer for its Remote Sensing and Environmental Informatics group. The candidate will join an enthusiastic team of developers, data gurus, and scientists working on the ORNL Distributed Active Archive (DAAC) for biogeochemical dynamics (<https://daac.ornl.gov>) to provide integrated data products, data management and delivery systems and services, and data analytics to facilitate research, education, and decision-making in the environmental sciences. The ORNL DAAC is a NASA-funded data center responsible for gathering, curating, publishing, and distributing data created and used by the NASA Terrestrial Ecology Program.

The participant will be involved in process improvement and software development for ingesting and publishing terrestrial ecology data, particularly in terms of improving automation, resilience, documentation, and testing of software used for this work.

The position appointment is for one year, with extension to a total of one year possible, depending on performance, mutual interest, and available funding. The anticipated start date for this position is January 2020, though candidates with later availabilities will receive full consideration. Salaries will be competitive and include benefits.

Qualifications Candidates should have completed a bachelor's degree in computer science, engineering, physical science, mathematics, geology, geography, earth and environmental science, ecology, forestry, or related field.

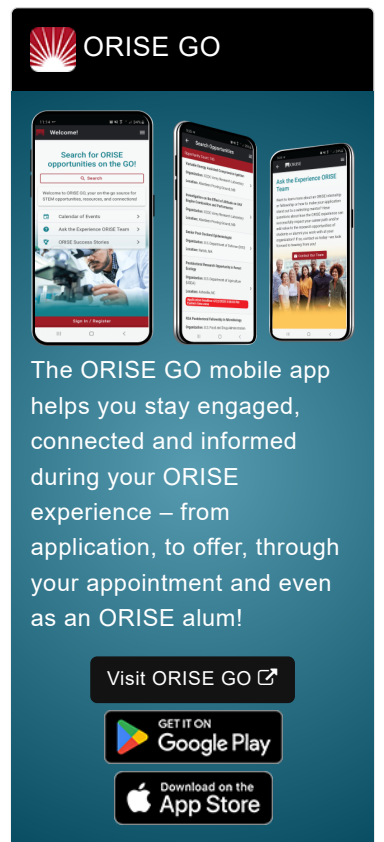
Preferred Skills:

Required Qualifications

- Practical software development experience in Python.
- Practical experience working on Linux systems, including at least some shell scripting.
- Strong interpersonal skills, including experience working in a collaborative team environment.


Preferred Experience


- Experience with Python Flask.
- Experience working in programming languages in addition to Python, with JavaScript, R, Perl, and Java of particular interest.
- Experience or background relating to the earth and environmental sciences.
- Experience working with containers, particularly Docker.




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Research Associate

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- Experience with relational databases, particularly MySQL.
- Experience with CI/CD, DevOps, Agile, Git, Kubernetes, etc..
- Experience working with scientific data, particularly any form of earth science data.
- Experience working with data analytics tools in Python or R, such as NumPy.
- Experience working with geospatial data and/or geospatial information systems.

Living in East Tennessee: While the opportunity to work at ORNL is an amazing experience in itself, it's easy to overlook everything else East Tennessee has to offer if you haven't had the opportunity to spend time here. From spending your weekends downtown at Knoxville's farmers market, the Rhythm n' Blooms Music Festival, or the Dogwood Arts Festival, to some of the best hiking, kayaking, and camping in the U.S., East Tennessee has something to offer everyone.

The ORNL Post-Bachelor's Research Associate Program is administered by Oak Ridge Associated Universities through its contract with DOE to manage the Oak Ridge Institute for Science and Education (ORISE).

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| Eligibility Requirements | <ul style="list-style-type: none">• Degree: Bachelor's Degree received within the last 36 month(s).• Discipline(s):<ul style="list-style-type: none">◦ Business (11 )◦ Chemistry and Materials Sciences (12 )◦ Communications and Graphics Design (6 )◦ Computer, Information, and Data Sciences (16 )◦ Earth and Geosciences (21 )◦ Engineering (27 )◦ Environmental and Marine Sciences (14 )◦ Life Health and Medical Sciences (45 )◦ Mathematics and Statistics (10 )◦ Other Non-Science & Engineering (13 )◦ Physics (16 )◦ Science & Engineering-related (1 )◦ Social and Behavioral Sciences (28 )• Age: Must be 18 years of age |
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