

Opportunity Title: Post-Master's Research Associate - Software Developer

Opportunity Reference Code: ORNL15-10-ESD

Organization Oak Ridge National Laboratory (ORNL)

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Description The Environmental Sciences Division at Oak Ridge National Laboratory (ORNL) has an opening for a Post-master's graduate in its Environmental Data Science and Systems group (<http://www.esd.ornl.gov/edss/>). We seek a recent (within the last 5 years) Master's graduate interested in applied research linking advanced informatics and computer science to data management and distribution in the earth, climate and environmental sciences.

The successful candidate also may be involved with a range of software development and data management applied research and activities to support projects in the Environmental Sciences Data Group. The work will focus on many ORNL-and DOE-related projects, including National Extreme Events Data and Research Center (NEED) and Carbon Dioxide Information Analysis Center (CDIAC). Work on other projects is possible as well, depending on the project needs, funding, and the particular educational interests of the selected candidate.

The position appointment is for two years, with possible extension to a total of three years, depending on the funding availability and mutual interest. The anticipated start date for this position is between October and December of 2014. Salary will be competitive and the position includes benefits.

Qualifications The candidate must have a Master's Degree in Computer Science or a related discipline, with a strong background in software development. Some knowledge in one or more earth sciences is advantageous. Currently enrolled students with an anticipated graduation date before January 2015 will also be eligible. Applicants cannot have received the most recent degree more than five years before the date of application appointment and the candidate must complete all degree requirements before starting their appointment.

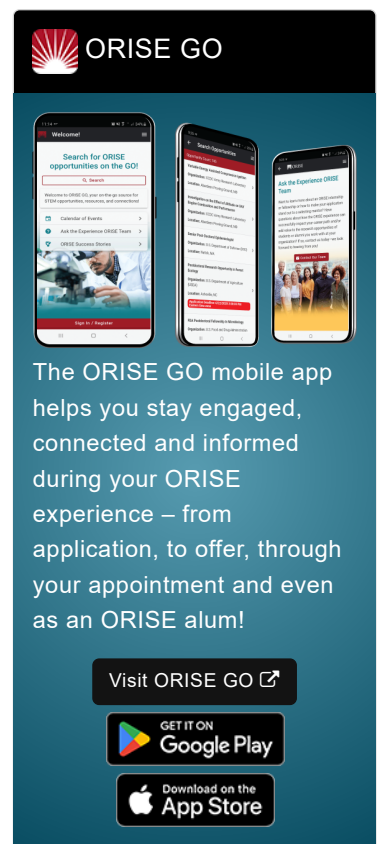
While experience in fulfilling course requirements is relevant for this position, preference will be given to candidates with experience in practical (deployed) applications, as part of dissertation research, or in other ways beyond stated course requirements.

The following skills and experience are required:

Strong knowledge in Java programming language, experience of Java server-side technologies and frameworks.


Background in Informatics or computer programming as applied to some type of engineering or scientific application, including strong software development skills for building Web-user interfaces using current tools and technologies.


Strong knowledge about fundamental programming concepts, experience or strong knowledge in Multi-tier software development process such as MVC




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architecture, as exemplified by at least one deployed application (preferably Internet-facing) developed outside of fulfilling a course requirement.

Working experience in Linux (preferred) or Windows servers.

- Eligibility Requirements**
- **Degree:** Master's Degree received within the last 60 month(s).
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([16](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([2](#))

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

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