Job Description

1. Position Identification

Position Title: Software Developer
Department: Chemistry
Reports to: Prof. Dennis Hore
Last Updated: May 2020

2. Position Summary

The Vancouver Island Drug checking project offers free and confidential testing of street drugs in Victoria BC. The project involves dedicated teams with different backgrounds and technical expertise collaborating to provide state-of-the-art services including chemical analysis of samples using a variety of instrumental methods, and software/micro-services for data science analytics.

This is a 3-year full-time grant-funded position. The software developer is expected to work as part of the Vancouver Island Drug checking team to develop new tools and ensure the operational effectiveness of the existing drug checking micro-services. The developer will help in maintaining the platforms, servers, databases, and the analytics pipelines, as well as contribute to the development of new micro-services with new processing capabilities, intuitive user interfaces, and advanced secure and private environments.

This position requires the candidate to have significant problem-solving skills to analyze and correct software problems and to design micro-services in a complex software environment involving many loosely interacting components. The developer is expected to provide the necessary computational and software support to the rest of the team. Candidates with experience in Kubernetes, Containers/Dockers, unix servers, SQL databases (e.g. MySQL), Python, Django, Jupyter technologies (Jupyterhub and Jupyterlab) and mobile app development are especially encouraged to apply.

3. Summary of qualifications:

This position requires a Bachelor’s Degree in Computer Science or Engineering, or another relevant discipline, with preference given to candidates with experience in software development, micro-services deployment, and system administration.

An equivalent combination of education and experience may be considered.

Specialized qualifications:

- Expert knowledge of RedHat Enterprise Linux and/or derivatives
- In-depth knowledge of software development process
- Experience in software design and architecture
- Experience in developing and deploying websites. Experience with Django will be of great interest.

In addition, this position requires:

- High degree of attention to detail, as is the ability to understand complex technical concepts and the need to maintain broad and in-depth technical knowledge of all aspects of servers and server operating systems.
- High level of problem-solving abilities; must be able to effectively identify and resolve unusual and highly complex technical problems.
- Ability to effectively manage multiple tasks and priorities and work under pressure to meet time sensitive and mission critical deadlines in a complex environment.
• Ability to take initiative and work with limited direction.
• Ability to work collaboratively.
• Ability to mentor and coach technical staff and teams, and act as a resource.
• Ability to successfully contribute to complex projects: developing project work plans; monitoring and directing the activities of a project team.
• Excellent written and oral communications skills.
• Strong interpersonal skills.

Experience in Kubernetes, Containers/Dockers, unix servers, SQL databases (e.g. MySQL), Python, Django, Jupyter technologies (Jupyterhub and Jupyterlab) and mobile app development, as well as experience in working in a research environment, will be considered an asset.

How to Apply:

Please send a CV, cover letter that highlights related experience, and contact information for two references to Dennis Hore by email: dkhore@uvic.ca.

Applications will be reviewed after 15 June 2020, and the position will remain open until filled.