Software Developer

D-Wave is looking for exceptionally motivated people who love to see the impact of their work on a daily basis, who will do whatever it takes to ensure success of the company, and who want to be a part of something special.

D-Wave is working to radically change what it is possible to do with computers. Our mission is to integrate new discoveries in physics and computer science into new breakthrough approaches to computation. We are committed to commercializing quantum computers. The company's flagship product, the D-Wave Two, is built around a novel type of superconducting quantum processor. D-Wave Two systems are currently in use by on-line customers and by customers in the field such as NASA & Google

Position Description:

D-Wave is seeking an experienced Software Developer with extensive Common Lisp (or equivalent) programming and UNIX-based system administration experience to join the Processor Development group. The successful candidate will be responsible for architecting, designing, programming, testing and maintaining the entire suite of software necessary to support the testing and operation of D-Wave's quantum computing hardware. The software is predominantly Common Lisp-based and is an integral part of the quantum computing system. It is used for a variety of purposes including calibration, operation, testing and benchmarking.

Responsibilities include:

- Work closely with physicists to develop aspects of quantum processor calibration and operation infrastructure
- General help with software development in a laboratory environment. Specifically, helping physicists, engineers, and lab technicians specify, design, implement and debug software used for processor development and operation.
- Analyze and optimize existing software and newly developed routines for performance and reliability. Software development and support related to architecture, usage of libraries and functions, the best ways of solving a problem or implementing a new feature, and layer efficiency and performance optimization
- Software development, support, and troubleshooting systems hardware including fridge control and processor electronics
- Full life-cycle support of software products from development, test and validation, production deployment, through to decommissioning
- Configuring and upgrading quantum processor control servers and software development servers

Required Qualifications:

- Bachelor's Degree in Computer Science, or equivalent education and experience
- At least 5 years of professional software development experience including software design, code and test, and maintenance
- Functional programming experience with a high degree of proficiency in Common Lisp (or equivalent) and C/C++
- Proficient in high-level and low-level programming languages
- Background in test and validation, the management of software repositories, version control methodologies and issue/bug tracking.
- Experience with the development of web-service APIs for external interfacing needs.
- Experience developing device driver software and interfacing to electronics
- Able to manage dynamic and changing software requirements

Interested applicants should send their portfolio and resume, including references to
Jobs@dwavesys.com

We thank all applicants for their interest, however, only those who are selected for interviews will be contacted.

D-Wave Systems Inc. is an equal-opportunity employer and encourages applications from all qualified candidates regardless of gender, race, ethnicity, age, religion or sexual orientation.