

EXPERIMENTAL PHYSICIST

D-Wave Systems is building an ultra-fast computer based on quantum physics. Since its founding in 1999, D-Wave has laid the groundwork for turning this ambitious vision into reality. The company has received two British Columbia Technology Industry Association (BCTIA) awards (Most Promising Start-Up 2002 and Most Promising Pre-Commercial Technology 2003). It has been profiled in several publications including MIT Technology Review magazine and Business 2.0, and is widely acclaimed as the leading company in the world in the quantum computing field.

In February 2007, D-Wave unveiled and demonstrated this technology publicly for the first time. In November, D-Wave exhibited at SC07 - the premier international conference on high performance computing - where the company was honored to participate in the Disruptive Technologies initiative.

D-Wave is seeking an Experimental Physicist who will be responsible for solving problems arising in the design and operation of the world's most advanced superconducting quantum computer processors.

This position requires working experience with superconducting devices and ultra-low temperatures. The successful candidate will work with our Hardware Development group on design of qubits and systems of qubits, and design and implement experiments to debug and develop hardware.

Required Qualifications:

- Ph.D. in experimental physics
- Experience working with superconducting devices and low temperatures
- Highly motivated to work on problems arising from operation of practical quantum computing systems
- Creative, energetic, self-motivated individual who can work effectively as part of an interdisciplinary team
- Able to work in a time-sensitive environment on a wide variety of problems
- Excellent communication skills

Desired Qualifications:

- Experience working with qubit devices
- Experience with dilution refrigerators
- Experience working with low noise electronics
- Proficient programmer

Interested applicants should send a resume including references to EP2008_2@dwavesys.com.