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COMPUTATIONAL PHYSICISTS

D-Wave is seeking Computational Physicists. The Computational Physicists will be responsible for solving problems arising in the design, simulation and operation of the world's most advanced superconducting quantum computer processors.

These positions require demonstrated aptitude in the numerical analysis and solution of complex mathematical physics problems. Expert competence in Matlab is required. Experience with modeling superconducting devices, qubits, systems of qubits, circuit parameter extraction tools, and decoherence is preferred but not required.

The successful candidates will work closely with the Design, Testing & Analysis and Theory groups on design and modeling of qubits and systems of qubits, design and modeling of experiments, design and modeling of adiabatic quantum algorithms, analysis of data obtained from operation of quantum computing systems, and simulation of new devices. The position requires that the Computational Physicists solve difficult problems in a high pressure, time-sensitive environment.

Required Qualifications:

- M.Sc. or Ph.D. in physics, engineering, computer science or equivalent
- Demonstrated aptitude in the numerical analysis and solution of complex mathematical physics problems
- Excellent numerical programming skills, including expert proficiency in Matlab
- 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 high pressure, time-sensitive environment on a wide variety of problems

Desired Qualifications:

- Excellent communication skills
- Experience working in industry
- Experience working with superconducting circuits and/or quantum computation

Interested applicants should send a resume including references to theory2008@dwavesys.com.