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## ALGORITHMS RESEARCHER

D-Wave is seeking an Algorithms Researcher. The Algorithms Researcher will work with the Theory, Testing and Analysis and Algorithms groups to build benchmarks and benchmark classes for NP-hard problems run on D-Wave's superconducting quantum computing hardware.

These positions require outstanding aptitude in the design, implementation and analysis of complete and/or heuristic algorithms for solving NP-hard optimization problems. Experience with quantum computation is not required.

The Algorithms Researcher will analyze the performance of conventional NP-hard solvers on a variety of quadratic unconstrained binary optimization instance classes, and compare this performance to that obtained using quantum annealing based algorithms both in theory and in practice. The position requires that the Algorithms Researcher solve difficult problems in a high pressure, time-sensitive environment.

### Required Qualifications:

- M.Sc. or Ph.D. in computer science or equivalent
- Demonstrated outstanding aptitude in design and implementation of algorithms
- 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 in implementing complete and/or heuristic algorithms for NP-hard discrete optimization problems
- Experience with quadratic unconstrained binary optimization

Interested applicants should send a resume including references to [algres2008@dwavesys.com](mailto:algres2008@dwavesys.com).