

Department of Physics

Graduate Research Assistant Position for Winter 2010

A Graduate Research Assistantship is now available for A Winter Quarter 2009. The Research Assistantship is funded 50%, which requires 220 hours of work per quarter. It involves working with Professor Boris Blinov.

The successful candidate will work on the newly funded project to develop ultrafast quantum logic gates with trapped atomic ions. The idea is to use short laser pulses to impart qubit state dependent momentum kicks on the ions to facilitate a controlled-PHASE gate on a time scale much shorter than is currently possible with the standard stimulated-Raman transition gates.

The successful applicant will have good knowledge of atomic physics and quantum theory, and previous hands-on experience with optics, lasers and electronics.

Duties may include those listed at: http://www.phys.washington.edu/grad_RA duties.pdf

Requirements:

- Enrollment in the Physics PhD Program
- Good knowledge of atomic physics and quantum theory
- Hands-on experience with lasers, optics, and electronics.

The University of Washington is an equal opportunity, affirmative action employer. http://www.washington.edu/admin/eoo/EOO_policy_01.html

For more information please contact Professor Boris Blinov (PAB Room B-436), blinov@uw.edu, or tel. 206-221-3780.

If interested, please respond by **Friday October 30, 2009**.