

## **Department of Physics**

### **Graduate Research Assistant Position for Summer 2006**

A Graduate Research Assistantship is now available for Summer Quarter 2006. The Research Assistantship is funded 50%, which requires 220 hours of work per quarter. It involves working with Professor Boris Blinov to support research on the Physics-RSA.

This position involves setting up a linear RF ion trap for Ba-137 ions, trapping and laser-cooling the ions, and installing an ultrafast laser system for optical excitation of single trapped ions. These techniques will be applied to quantum information processing tasks: generation of entanglement between ions and photons and between different ions, demonstration of quantum repeaters, etc.

Duties may include those listed at: [http://www.phys.washington.edu/RA\\_duties.pdf](http://www.phys.washington.edu/RA_duties.pdf)

#### **Requirements:**

- Enrollment in the Physics PhD Program
- Experience with UHV apparatus, lasers and optics, especially with the ultrafast laser systems and short-pulsed laser beams

The University of Washington is an equal opportunity, affirmative action employer.  
[http://www.washington.edu/admin/eoo/EOO\\_policy\\_01.html](http://www.washington.edu/admin/eoo/EOO_policy_01.html)

For more information please contact Professor Boris Blinov (PAB Room B-409), [blinov@u.washington.edu](mailto:blinov@u.washington.edu) or tel. 206-221-3780.

If interested, please respond by **Tuesday, May 9, 2006.**