



WOODS HOLE RESEARCH CENTER

**Research Assistant/Associate Position
Boreal Forest Fire Effects - Job #BRRA17**

SUMMARY: We seek a Research Assistant or a Research Associate to support several projects related to NASA's Arctic Boreal Vulnerability Experiment (ABOVE). The successful candidate will develop trajectories of ecosystem variables after wildfire in Alaska and Canada, and scale field measurements using remote sensing. Ultimately this research will inform fire management in northern systems. This position requires advanced remote sensing, GIS, and statistics experience, including the ability to manipulate large data sets in a LINUX computing environment.

Responsibilities: The successful candidate will:

- Process and analyze multi-temporal remote sensing and geospatial data, taking advantage of supercomputing facilities operated by NASA.
- Develop trajectories of post-fire albedo and carbon dynamics after wildfires in Alaska and Canada using advanced statistical approaches.
- Derive statistical relationships between field measurements and geospatial data.
- Collaborate on the development of climate forcing layers to inform management.

Qualifications and Experience:

- B. S. (minimum) or M.S. (preferred) degree in environmental science, geography, ecology, Earth system science, forestry, or a related discipline.
- Demonstrated experience using remote sensing (Landsat or MODIS preferred) or other Earth observation data, and advanced statistical techniques.
- Knowledge of forest and disturbance dynamics.
- Advanced computational and programming skills.
- Excellent written and oral communication skills.
- Ability to work independently and in a highly collaborative environment.

Desired Start Date: June 2017

Application Deadline: April 15, 2017, or until filled. **Salary Range:** \$48,000 to \$58,000 depending on experience, with full benefit package, exempt position. **Appointment:** This is a one-year appointment, with the potential to extend.

Application Instructions: To apply, please send cover letter referencing "Research Assistant Job # BRRA17", curriculum vitae, and contact information for three references to jobopenings@whrc.org. Please type "BRRA17" in the subject line.

The Woods Hole Research Center is an independent, nonprofit institute focused on environmental science, education, and public policy. The WHRC focuses on combining analysis of satellite images of the Earth with field studies and computer models to better understand changes in the world's ecosystems, from the thawing permafrost in the Arctic to the expanding agriculture regions of the tropics.