

From: owner-pabiodiv@webmail.upb.pitt.edu On Behalf Of Lisa Nowicki  
Sent: Thursday, April 20, 2006 7:53 PM  
To: PABIODIV@webmail.upb.pitt.edu  
Subject: PABIODIV: Heritage Conservancy 2006 Summer Internship

## Bellwood Preserve Restoration Project 2006, Summer Internship Opportunity - Ecological Restoration

Heritage Conservancy, a non-profit land trust in Doylestown, PA dedicated to preserving our natural and historic heritage, seeks an intern for the Summer of 2006 to continue ecological restoration at our Bellwood Preserve. Qualifications include experience and interest in ecology, natural resource management, environmental science, wildlife, botany, forestry or other related field preferred. Experience in related field work, plant identification and summary report writing preferred. Applicant must have own transportation/personal vehicle. Qualified candidates should forward a cover letter and resume to: Lisa Nowicki, Conservation Biologist, Heritage Conservancy, 85 Old Dublin Pike, Doylestown, PA 18901, phone 215-345-7020 x134, fax (215) 345-4328, [lnowicki@heritageconservancy.org](mailto:lnowicki@heritageconservancy.org).

Overall Project Description: The Bellwood Preserve Restoration Project seeks to reestablish natural biological diversity, physical integrity and ecological function to the 101-acre site located along Mill Creek, in the Neshaminy Watershed, in Northampton Township, Lower Bucks County, Pennsylvania. During the current restoration phase, Heritage Conservancy and its partners have begun the restoration of the mid-Atlantic mesic mixed hardwood forests on the Preserve. The goal of the current phase is to create and demonstrate the effectiveness of an invasive species management plan for the Bellwood Preserve and the Churchville Greenway, education of public officials and residents, and engagement of community residents and officials in restoration and stewardship efforts. Short-term success of the project will be measured by the extent to which invasive species are eliminated from the demonstration sites and replaced by native species.

### 2006 Summer Intern Responsibilities

1. Complete training of identification of target invasive species and how to implement control measures.
2. Facilitate and demonstrate the effectiveness of invasive plant management methods and deer exclosure fencing in improving plant diversity and forest regeneration through:
  - a. employment of various manual, mechanical and chemical control methods to eradicate non-native, invasive species within a 1.3-acre plot in MU2A and within a 1.5-acre plot in MU4A;
  - b. installation of deer exclosure fencing in MU4A;
  - c. qualitatively inventory the vegetative communities occurring within subplots in MU2A and MU4A (Year 2 data);
  - d. quantitatively survey the percent cover of non-native, invasive plant species within subplots of the 1.3-acre plot in MU2A and within the 1.5-acre plot in MU4A, in order to assist in the determination of what methods effectively control invasive species (Year 2 data);
  - e. take photographs and spherical densitometer readings in MU2A to document changes over time due to active management (Year 2 data); and,
  - f. plant native species to replace the removed invasive species within a subplot in MU2A.
3. Analyze Year 1 and Year 2 data.
4. Coordinate and supervise volunteers. Repair and maintain existing trails and construct new trails as necessary in order to implement restoration and management of the Preserve.

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