

**FY 2007 SUMMARY
USACE / SCA CONSERVATION INTERN & CREW PARTNERSHIPS**

KENTUCKY

Buckhorn Lake

12week intern: 05/21/2007 - 08/13/2007

Responsibilities Include: Assist Park Ranger staff in the establishment of a newly constructed 3.5 mile hiking trail system including the placement of trail signage, water diversion structures and steps along the trail bed, 30%; manage, collect and enter data pertaining to several project programs, including Customer Comment Card Program, Gypsy Moth Trapping Program, Project Visitation and Project GPS/GIS data, 25%; perform visitor assistance duties at project campgrounds and recreation areas including playground inspections, bulletin board maintenance and water safety presentations etc., 25%; assist Park Ranger and Administrative staff in preparing public service announcements, campfire journals and various other computer generated documents, 10%; assist project maintenance personnel with occasional light-duty construction and/or recreation area maintenance projects, 10%. Required: US citizenship; valid drivers license; ability to drive manual transmission vehicles; intermediate computer and word processing skills. Background in forestry, natural resources or recreation.

Carr Creek Lake

12 week intern: 05/01/2007- 07/24/2007

Responsibilities Include: Gather and input facility data into OPIE GIS system; assist with gathering visitor information through comment cards; place gypsy moth traps in field and record data from traps; take and post shelter reservation information; collect visitor numbers and input into VERS program; conduct water safety programs; update bulletin boards. Require: US citizenship; valid drivers license; GIS/GPS skills.

MASSACHUSETTS

West Hill Dam / Charles River Natural Valley Storage Area

40 week intern: 05/01/2007 - 03/01/2008

52 week intern: 07/09/2007- 07/07/2008

Responsibilities Include: Locate Corps boundary and easement lines and property markers (using GPS Trimble Geo XT); gather data and enter into database for export into Arcview GIS version 9.1; scan and geo reference survey related documents; create maps using raster data sets and shape files, provide contractor with complete data package for boundary maintenance work. Additional GIS assignments do become available as needed. Require: US citizenship; valid drivers license; ability to driver 4WD vehicle; college course and lab work or volunteer/paid experience with ArcView 8.X Trimble Geo-Explorer- 3; physically able to walk up to 1 to 2 miles with equipment (about 20 pounds). Computer skills (Windows 2000 NT and PowerPoint).

NEW YORK

New York District

26 week interns: (2) 03/20/2007 - 09/20/2007

14 week interns: (2) 05/01/2007 08/21/2007

Responsibilities Include: Monitor for the presence of Piping Plover (Federally threatened species- Atlantic coast population) and Least Tern (state threatened species); identify nest sites, note eggs, chicks and follow brood to maturity (i.e. fledging); assist with erecting enclosures, fencing and move fences as appropriate; keep a note book and record sightings for each monitoring; surveys the Seabeach Amaranth (a Federally threatened plant) during late June, July and until mid August (as time permits). Require: US citizenship; valid driver's license; familiarity with biology of shorebirds and terns, specifically Piping Plover and Least Tern; ability to interact with the public; ability to take careful notes; ability to walk at least 4 miles per day, 6 days per week in

sand; familiar with and ability to adhere to protocols that will be given at the start of the field season. One of the interns must have superior credentials (minimum of BS degree with ornithology courses and substantial previous experience with Piping Plover) since they will act as the team leader and be responsible for the team and the weekly reports and final report. For the team leader: MA in ornithology or wildlife biology. For steward interns: previous experience monitoring Piping Plover and Least Tern.

OREGON

Bonneville Lock and Dam

12 week interns: (6) 03/16/2007 - 05/28/2007

Responsibilities Include: Observe sea lion predation on salmon and other species below Bonneville Dam; watch with binoculars to enumerate predation events; identify species of fish taken; identify species of pinnipeds present and number of pinnipeds present; identify individual pinnipeds and note other behaviors; study the impacts of harassment methods; data input and analysis. Observations occur from dawn to dusk at three locations at the dam, seven days a week. Required: US citizenship; ability to be outdoors all day; Good eyesight; able to work on own with little supervision after initial training; must be punctual. Valid drivers license; interest and experience observing wildlife; ability to identify fish and wildlife; good note taking; some experience with computers for data entry.

PENNSYLVANIA

Raystown Lake

26 week intern: 07/01/2007-12/31/07

Responsibilities Include: Serve as a biological technician performing natural resource inventories (using the national vegetation classification system) on large tracts of federal property; summarize data; transfer field data to GIS systems, prepare required reports; arrange biological data and analysis information into tabular or graphic format for inclusion into documents; perform studies of vegetation or other natural resources; collect field data across a variety of landscape tasks in all types of weather. Require: US citizenship; valid drivers license; BS degree in biology, forestry wildlife, geoenvironmental, environmental sciences or other related natural resources program; ability to hike over various terrain for long periods of time; ability to use computers including ARCGIS 9.x; experience with collection spatial data using GPS (preferably Trimble/Pathfinder Office); experience using Microsoft office software such as Word, Excel and PowerPoint. Ability to drive 4WD vehicles.

TENNESSEE

Nashville District Office

52 week intern: 06/04/2007- 06/03/2008

Responsibilities Include: Perform digitizing, scanning and editing of digital data, 25%; gather data in the field with GPS equipment and enter collected data into system, 5%; create GIS layers and maps of various natural resources features, 50%; import information into ArcGIS, 20%. Require: US citizenship; valid drivers license; academic course and lab work or volunteer/paid experience with ArcGIS 8.X and ArcVIEW; computer skills (Windows XP, Word, Excel, Access etc.). Academic coursework in natural resources management, biology, fisheries and/or wildlife management.

TEXAS

Mid-Brazos Project Office/Whitney Lake

12 week interns (2): 10/30/2006 - 01/22/2007

Responsibilities Include: Collect GPS data, export data into GIS, create GIS layers and layouts, provide knowledge of traditional surveying techniques helpful in some locations associated with management of natural resources, recreation, and property line, 50%; conduct boundary work, clear vegetation for line of sight in remote areas using cutting tools, sign, mark and maintain boundary while documenting encroachments, 15%; assist staff with various natural resource and recreation projects, 20%; coordinate and assist volunteer efforts, 5%; assist staff with minor maintenance, 5%; perform administrative and clerical duties, 5%. Require: US citizenship; valid drivers license; academic or volunteer/paid experience with ArcGIS & Trimble Geo-Explorer handheld GPS units; experience with use of survey transit; intermediate computer skills (Microsoft Word, PowerPoint, Excel and Access); experience in dealing with the public; ability to work with minimal supervision; ability to work well with others; ability to hike several miles across rough terrain carrying a backpack (20-lbs); ability to work outdoors under adverse weather conditions and ability to lift 50-lbs. Ability to drive 4WD vehicles; academic background in natural resources and/or recreation.

VERMONT

Upper Connecticut River Basin

12 week interns (2): 05/15/2007 - 08/21/2007

Responsibilities Include: Assist with various wildlife inventories (small mammals, birds, herptiles) in a variety of habitats and locations, 75%; assist with a variety of resource management activities, 15%; computer data entry, 10%. Require: US citizenship; valid driver's license; interest in natural resources field work; ability to work in inclement weather; willingness to learn. Ability to drive 4WD vehicles; experience with computers and GPS; skill in identifying birds by sight and sound; ability to handle small mammals.

12 week interns (3): 05/15/2007- 08/21/2007

Responsibilities Include: Work with GIS, 80%; conduct natural resources projects, 20%. Require: US citizenship; valid driver's license; knowledge of ArcGIS 9.x. Ability to swim; sense of humor; GIS/GPS knowledge; computer data processing skills.

12 week intern: 05/15/2007- 08/21/2007

Responsibilities Include: Conduct various bird inventories (point counts, waterfowl, nightbirds, raptors) and assist with a variety of wildlife inventories (small mammals, herptiles) in a variety of habitats and locations, 75%; assist with a variety of resource management activities, 15%; computer data entry, 10%.

Require: US citizenship; valid driver's license; enthusiasm for wildlife management work; ability to work in adverse weather conditions; sense of humor; bird identification skills by sight and sound.

26 week interns (2): 05/14/2007- 11/12/2007

Responsibilities Include: Assist with various wildlife inventories (small mammals, bats, birds, herptiles) in a variety of habitats and locations, 75%; assist with a variety of resource management activities, 15%; computer data entry, 10%. Require: US citizenship; valid driver's license; enthusiasm for wildlife management work; ability to work in adverse weather conditions; sense of humor. Ability to drive 4WD vehicle; bird identification skills by sight and sound.

21 day Conservation (High School) Crew. Six member, two leaders.

Removal and control of invasive plants.

WASHINGTON

Chief Joseph Dam

21 day Conservation (High School) Crew. Six member, two leaders.

Fire line clearing at primitive campground, invasive tree, tree planting, and installing protection against herbivores.

Clarkston Natural Resource Office

20 week intern: 02/15/2007- 07/08/2007

26 week intern: 07/01/2007- 12/31/2007

Responsibilities Include: Data management of existing areas; upload new data into databases and update metadata when changes occur; work to coordinate system issues; create new data layers from spreadsheets; work with geodatabases and Trimble XRS/Recon; identify plant species and habitats; assist with ongoing projects such as flood control data collection, levee inspections, Piezometer readings, goose nest egg count surveys updating and printing maps, working with maintenance crew and infrastructure mapping (to name only a few of the possible projects); assist with future projects such as incident logs, ranger reports, vandalism and tickets/warnings, determining migratory and resident bird species and population density, collect pesticide application data and analyze effectiveness and create GIS coverages for botanical survey (to name only a few). Required: US citizenship; valid driver's license; ability to operate 4WD and manual transmission vehicles including 4x4 trucks and possibly ATVs; knowledge of GIS/GPS equipment, including ESRI, ArcGIS/ArcINFO and MS Excel. Knowledge of MS Access, Trimble Terrasync, ESRI ArcPad, Visual Basic, Avenue, C++, and/or Python programming; knowledge of geospatial coordinate systems with excellent spatial reasoning ability; skill in map production (digital and hard copy).

Walla Walla District (Ice Harbor Dam)

26 week intern: 05/01/2007- 11/01/2007

Responsibilities Include: Assist GIS/GPS specialist with data management of existing areas, upload new data into databases and update metadata when changes occur, work to coordinate system issues, create new data layers from spreadsheets, work with geodatabases, work with Wildlife, Park and Maintenance staff with infrastructure mapping and habitat data collection and create GIS maps of Habitat Management Units and Parks, 50%; locate Corps boundary and easement lines and marker/monuments (using GPS Trimble Geoexplorer - version- 2.90 or 3), gather data and enter into database for export into Arc View and Arc Map GIS, scan survey related documents and install Carsonite markers/signs as directed, 40%; develop GIS products required for shoreline and operational plans, 10%. Require: US citizenship; valid driver's license; ability to drive 4WD vehicles; ability to work with geodatabases, create GIS maps, export GIS data into Arc View and Arc Map GIS and operate GPS Trimble Geoexplorer - version- 2.90 or 3; ability to work independently in rugged terrain and at times during inclement weather; intermediate computer and word processing skills; physical ability to walk up to 1 to 2 miles with equipment; ability to work with other people. BA/BS in natural resource related field; experience operating motor boats and ATVs; training and/or experience in map reading and orientation skills; good verbal and computer skills. Ability to drive 4WD vehicle.

