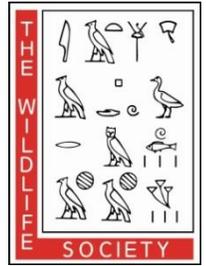




U.S. Forest Service Native American Research Assistantship: Student Instructions



The U.S. Forest Service (USFS), through partnership with The Wildlife Society, is offering research assistantships for Native American graduate or undergraduate students as part of the TWS professional development program for Native Americans. The program will facilitate student mentoring opportunities with USFS Research & Development (R&D) scientists, and promote student advancement and training for careers in natural resource and conservation-related fields. A paid stipend will be provided to cover living expenses during the assistantship time period. The Forest Service uses an ecological science-based approach to make informed decisions on the multiple-use management of the National Forests and Grasslands.

Description

Short-term research assistantships are available for Native American students interested in wildlife and forest resources and excited to learn and work with an interdisciplinary team of researchers. We are seeking upper-level undergraduate (junior/senior) or graduate (M.S. or Ph.D.) students interested in conducting research in one of the following areas:

- 1. Interrupting the disease cycle of *Pseudogymnoascus destructans* (Pd): Leveraging knowledge of disease and treatment dynamics to design integrated disease management strategies**

Project Objectives: Evaluate metabolic changes and disease progression (White-nose syndrome) from initial appearance of conidia on bats (swarming) through treatments; and assess post-hibernation survival, fitness and reproductive success.

Location, Estimated Duration, and Housing: Missouri, Michigan, Tennessee, or Arizona. The assistantship will last approximately 12 weeks. Known housing is currently uncertain and would need to be determined through information sharing between the student and a Forest Service representative. Many housing options are available in the area including rooms for rent without a lease and dorm rooms at the University.

- 2. Evaluating regional and landscape-scale movement patterns of wood turtles**

Project Objectives: Research objectives are to: (1) quantify genetic structure and estimate gene flow across northern MN, MI, and WI using standard landscape genetic approaches (e.g., isolation-by-distance); (2) combine genetic data with landscape variables to determine potential movement corridors and barriers (e.g., distribution of river systems, dams, flow regimes, and (3) link results with regional conservation genetic research being completed in eastern portion of their range being conducted by Dr. Andrew Whiteley.

Location, Estimated Duration, and Housing: Wisconsin. The assistantship will last approximately 12 weeks and take place sometime between April and August.

- 3. Assessment of wildfire risk in treated and untreated Mexican spotted owl (*Strix occidentalis lucida*) territories on tribal lands**

Project Objectives: The primary objectives of this project are as follows: (1) Identify the composition of fuel loading in treated and untreated MSO breeding territories (preliminary assessments done in Year 1); (2) Identify the degree to which wildfire risk is reduced in MSO territories that have experienced moderate to low intensity silvicultural treatments; (3) Identify general trends regarding the spatial arrangement of wildfire risk around MSO nest sites (preliminary assessments done in Year 1); (4) Correlate MSO occupancy and reproduction rates to fuel loading and wildfire potential within breeding territories.

Location, Estimated Duration, and Housing: New Mexico. This internship is on a flexible schedule and we can work with the student on developing exact dates for work. However, we would like to plan for three consecutive months within this timeframe: starting no sooner than May 1, 2017 and ending no later than Sept 30, 2017. Local USFS housing is available in Ruidoso and possible tribal housing could be available. Details need to be determined.

4. **Assessment of camera trap surveys to estimate wild pig and white-tailed deer density**

Project Objectives: The objective of this project is to assess the effectiveness of camera-trap surveys to estimate wild pig (*Sus scrofa*, aka feral swine, feral hog, wild boar) and white-tailed deer (*Odocoileus virginianus*) population density as part of ongoing efforts to estimate and monitor populations of these species in response to management actions. Fortuitously, both pig and deer populations can be estimated from data collected during the same survey.

Location, Estimated Duration, and Housing: South Carolina. The assistantship will last for approximately 12-16 weeks within the 8/15/17-12/15/17 time period. The Savannah River Site is home to several research organizations with many students and seasonal workers, so rental housing with flexibility for short-term leases can easily be located within local communities near the duty station. The Forest Service itself does not have housing at the Savannah River Site. The student must secure and pay for his/her own housing. Assistance with the identification of housing options can be provided.

5. **Space use, survival, and nesting ecology of avian cavity excavators in prescribed burns**

Project Objectives: Our objectives are to examine space use, survival, and nesting ecology of avian cavity excavators in recent prescribed burns. Specifically, this assistantship would involve: (1) Assisting with capturing, banding, and radio-tagging nestling and adult woodpeckers; (2) Assisting with blood sampling and banding of songbirds that use woodpecker cavities, such as bluebirds, wrens, swallows, and kestrels; (3) Monitoring and reviewing video of nest predators at woodpecker nest sites; (4) Measuring vegetation in plots at nest sites; (5) Sampling wood decay fungi at nest sites post-fledging; (6) Assisting with radio telemetry tracking, from ground or fixed-wing aircraft.

Location, Estimated Duration, and Housing: Washington. The assistantship would last for approximately 12 weeks sometime between May 15, 2017 and August 1, 2017. Local USFS housing is typically available in Naches. If housing is not available due to housing shortages, the principal investigator will work with the student to find affordable housing in the area.

Only a limited number of projects may be funded and are dependent on a suitable student/mentor match.

Expectations:

Applicants will participate in laboratory or field data collection, data entry, and analysis as it relates to wildlife ecology and management.

During the research assistantship students will improve their oral and written communication skills. The successful applicant will be provided the opportunity to assist in publishing manuscript(s) in peer-reviewed journals, popular press, and/or present findings at scientific meetings along with USFS R&D scientists (dependent on travel funding).

Applicants must uphold and conduct their activities in accordance with the [Code of Ethics and Standards for Professional Conduct](#) as prescribed by The Wildlife Society. The selected students will be given a brief orientation to The Wildlife Society and to the Forest Service prior to the start of the assistantship.

Applicants will be expected to work independently and as part of a research team. Some travel may be expected for the project.

Qualifications:

Applicants must be a member of an American Indian or Alaska Native tribe, First Nations, or a Native Hawaiian or Pacific Islander, or have some other indigenous identification, and be currently enrolled in an undergraduate or graduate program from an accredited academic institution. A bachelor's or master's degree in wildlife biology, ecology, forestry or other closely related natural resource discipline is preferred. Students with Associates degrees from TCUs or other community colleges will be considered.

The ideal candidate will have strong verbal and written communication skills with demonstrated capabilities in science writing, ability to work both independently and as a productive member of a research team, and an ability to work under adverse field conditions (possible extreme weather, difficult terrain, venomous snakes and biting/stinging insects). Submission of a writing sample is optional.

Students with a GPA above 3.0 are preferred, and students with a minimum 2.5 GPA will be considered.

Current membership with The Wildlife Society is not required; however, please note if you are a current TWS member.

Additional Information:

The appointment is for 3 to 5 months within the 2017 calendar year, depending on the project. Starting dates are negotiable within the context of the seasonality of the research topics. Support includes a living stipend of approximately \$5,500. Housing will be available in the area, and may be offered at USFS facilities, or rented in local towns, dependent on project. See the project descriptions for more timing, location, and housing information.

Coverage under a medical insurance plan is required and the responsibility of the applicant. Transportation and relocation to and from the FS office location will not be paid. Taxes and others federal, state, and local deductions are the responsibility of the applicant.

Application Procedure

All application materials must be received by **NOVEMBER 4, 2016**.

To apply, please submit a brief cover letter indicating which research project you are applying for, resume/CV, transcripts, verification of Native American ethnicity (e.g. tribal member enrollment), and two recommendation letters. **If you are interested in more than one research project, please list your preferences in the order of most to least interested.**

If you have any questions about the application process or the assistantship program please contact Mariah Simmons at Msimmons@wildlife.org or 301-897-9770 x310. Application packages can be emailed as a single PDF to Mariah Simmons, TWS Wildlife Programs Coordinator, at MSimmons@wildlife.org or mailed to The Wildlife Society office at:

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