

Job Description

Job Title: HCSU Postdoctoral Researcher (Avian Population Modeling & Analysis)
Job ID: 12510
Project Name: HI Coop Studies Unit (HCSU)
Full/Part Time: Full-Time
Regular/Temporary: Regular

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Regular, Full-Time, RCUH Non-Civil Service position with the U.S. Geological Survey (USGS) Pacific Island Ecosystems Research Center's Kilauea Field Station, Hawaii Cooperative Studies Unit (HCSU), located in Hawaii Volcanoes National Park on the island of Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws.

MINIMUM MONTHLY SALARY: \$3,620/Mon.

DUTIES: Implements demographic modeling and forecasting of forest bird species of Hakalau Forest National Wildlife Refuge. Specifically, duties include analyzing legacy demographic research collected in the 1990's from Hakalau, developing estimates of survivorship and recruitment for eight (8) native species and two (2) introduced species. Integrated Population Modeling will be used to link the demographic estimates with long term census data to develop population demographic models for each species. Sensitivity analysis will be conducted to determine which demographic features are most influential on population growth, and the models projected forward in time to present to evaluate their performance in comparison to recent census numbers. Once models are complete, population viability assessments will be conducted for each species under different threat and management scenarios to help prioritize which threats to respond to and which management actions may have the greatest positive influence on populations. Responsible for quality control in every step of data management and data analysis. Interprets results and conducts writing of scientific manuscripts and presentations in collaboration with the Project Leader.

PRIMARY QUALIFICATIONS: EDUCATION: PhD from an accredited college or university in Wildlife Biology, Biostatistics/Biometry, Quantitative Ecology, Biology, or other quantitative field.

EXPERIENCE: One to two (1-2) years of experience in the following: Wildlife population modeling or decision analysis, including adaptive management. Applied statistics/data analysis and study design, preferably wildlife population dynamics on passerine birds; population viability projections methodologies; and database management. One to two (1-2) years of scientific writing experience.

ABIL/KNOW/SKILLS: Knowledge of avian ecology and survey methods, and wildlife monitoring techniques. Working knowledge of population ecology, personal computers, statistical, and database programs. Requires extensive knowledge of statistical applications, database, spreadsheet, and statistical software. Requires extensive knowledge of scientific writing and editing, literature searches, statistical applications, create predictive models. Demonstrated ability to perform data management and analysis. Ability to use Access, Excel software, R, WinBugs, and other statistical analysis packages. Skills in applied statistics. Ability to train and assist others in data management and analysis. Technical writing skills. Excellent communication skills both in writing and verbally. Must possess a valid driver's license. Proficient programming skills are required (R or WinBugs or similar programs). **PHYSICAL/MEDICAL REQUIREMENTS:** Ability to work daily at a computer work station.

SECONDARY QUALIFICATIONS: Prior experience with avian field studies and creating population models. Prior experience with avian demographic studies, climate change studies, population abundance analysis and survey techniques. Prior experience in the use of statistical models for the

analysis of management decisions or adaptive management. Published peer reviewed scientific papers with quantitative component. Some familiarity with Geographical Information Systems (GIS) applications and Hawaii wildlife and climate change conservation issues. Interest in ecology of islands and population dynamics.

INQUIRIES: Sharon Ziegler-Chong 933-0759 (Hawaii).

APPLICATION REQUIREMENTS: Please go to www.rcuh.com, click on "Employment"; select "Apply" and navigate to "See Job Announcements and/or Apply for a Job." You must submit the following documents online to be considered for the position: 1) Cover Letter, 2) Resume, 3) Salary History, 4) Supervisory References, 5) Copy of Degree(s)/Transcript(s)/Certificate(s). All online applications must be submitted/received by the closing date (11:59 P.M. Hawaii Standard Time/RCUH receipt time) as stated on the job posting. If you do not have access to our system and the closing date is imminent, you may send additional documents to rcuhr@rcuh.com. If you have questions on the application process and/or need assistance, please call (808)956-8344.

EEO/AA Employer.

Please apply before 11/11/2012

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