

Postdoctoral Fellow

Population Modeling and Assessment of Banding Needs for the Western Gulf Coast Population of Mottled Ducks

Colorado Cooperative Fish and Wildlife Research Unit in the Department of Fish, Wildlife, and Conservation Biology, Colorado State University,

POSITION TITLE: Post-doctoral Fellow

SALARY: \$58,500-\$62,000 per year, benefits included.

PERFORMANCE PERIOD: 24 months after start date, anticipate March 2020-February 2022, with additional years possible

APPLICATION DEADLINE: 9 February 2020 for full consideration

POSITION SUMMARY:

Colorado State University is seeking candidates for a postdoctoral position to evaluate and refine monitoring efforts for the Western Gulf Coast Population (WGCP) of mottled ducks. The postdoc will develop a banding needs assessment for waterfowl managers that incorporates traditional banding and band recoveries, with movement between areas, with an exploration of the use of alternate marking techniques (PIT tags or NANO tags) and resighting data to supplement recoveries. As part of this process the postdoc will develop a population model for mottled ducks that integrates various monitoring data streams, such as counts, recruitment data, and harvest, with band recoveries, to inform the design of future banding efforts and management decisions.

The primary objectives for this post-doctoral position are: 1) provide guidance to management agencies on the level and design of banding needed for WGCP mottled ducks; 2) investigate alternative marking and detection techniques to supplement band recovery data, and develop a multistate model to combine these data types; and 3) develop a population model that integrates various monitoring data sources, to inform banding decisions and management decisions.

DUTIES:

The post-doctoral fellow will be primarily supervised by Dr. Bill Kendall at the USGS Colorado Cooperative Fish and Wildlife Research Unit, at Colorado State University. The incumbent will also work with Dr. Dan Collins (USFWS, Albuquerque), and with biologists from Louisiana Department of Fisheries and Wildlife, Texas Parks and Wildlife Department, and USFWS National Wildlife Refuges.

MINIMUM REQUIREMENTS:

1. Ph.D. in conservation science, ecology, natural resources, statistics, or a related discipline.

2. Expertise in the principles and methods of wildlife monitoring and statistical methods used for modeling the population dynamics and trends of populations.
3. Demonstrated proficiency with statistical software including R
4. Demonstrated evidence of excellent written and oral communication skills.
5. Desire and proficiency to publish in the peer-reviewed literature.

DESIRED ABILITIES:

Competitive candidates will have a background in demographic estimation and population modeling, spatial modeling, knowledge of waterfowl population biology, and knowledge of waterfowl monitoring methods and analysis of waterfowl monitoring data. Experience with MARK, WinBUGs, JAGS, or STAN software is desirable. The successful candidate should have experience working collaboratively in groups.

TO APPLY:

To apply and view a full position announcement please visit:
<http://jobs.colostate.edu/postings/74183> by February 9, 2020, 11:59 pm (MT) for full consideration.

CSU is an EO/EA/AA employer and conducts background checks on all final candidates.

For further information, contact:
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