POSTDOCTORAL FELLOW
Modelling Fish Population Dynamics, Consumption and Trophic Interactions in the Grand Canyon

POSITION TITLE: Post-doctoral Fellow
SALARY: $62,000 per year, plus benefits.
PERFORMANCE PERIOD: 24 months after start date, anticipate March 2021 - February 2023, with additional years possible
APPLICATION DEADLINE: 03-January 2021

POSITION SUMMARY:

Colorado State University is seeking candidates for a postdoctoral position to develop models that integrate the population dynamics of fish species with bioenergetics and other trophic levels. The primary objectives for this post-doctoral position are to (1) Assess the survival, growth and consumption of humpback chub, flannelmouth sucker, and rainbow trout at fixed sites in the Grand Canyon as a function of biotic and abiotic factors; (2) develop an integrated model of rainbow trout movement in the Colorado River, as a function of environmental covariates including food availability, from capture, catch-per-unit-effort, and mark-recapture data; and (3) develop a modeling framework for an integrated population and food web model that combines vertebrate population dynamics with dynamics at lower trophic levels.

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 closely with Dr. Charles Yackulic at the USGS Grand Canyon Monitoring and Research Center.

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 population and other system dynamics.
3. Demonstrated proficiency with statistical software including R.
4. Demonstrated evidence of excellent written and oral communication skills.
5. Demonstrated evidence of publishing in the peer-reviewed literature.

**DESIRED ABILITIES:**

Competitive candidates will have a background in demographic estimation and population modeling, spatial modeling, food web modeling, and knowledge of fish population biology and food webs. Experience in JAGS, OpenBUGS, STAN, or Nimble software is desirable. The successful candidate should have experience and enjoy working collaboratively in groups.

**TO APPLY:**

To apply and view a full position announcement please visit: [http://jobs.colostate.edu/postings/81944](http://jobs.colostate.edu/postings/81944) By 03-January, 2021, 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:
Bill Kendall (William.Kendall@colostate.edu) or Charles Yackulic (cyackulic@usgs.gov)