



Postdoctoral Scholar - Elk Ecology and Management
Department of Environmental Science, Policy & Management
University of California, Berkeley

There is an opening for a Postdoctoral Scholar position in the Department of Environmental Science & Policy Management. UC Berkeley is working in partnership with the Karuk Tribe on a three-year project to better understand the movements, migrations, habitat use, and population dynamics of the Marble Mountain Roosevelt elk herds in northern California along the Klamath River in Karuk Aboriginal Territory. We are evaluating the response of elk to fuels-reduction efforts including prescribed fire, manual, and mechanical treatments. One goal of the project is to learn how treatments might be used to increase the quantity and quality of elk habitat on public and private lands in coordination with the collaborative fuels treatment strategies of the Western Klamath Restoration Partnership (www.wkrp.network).

The postdoctoral researcher will have a central role in coordinating the analysis of data from GPS collars, fecal DNA sampling, and camera arrays to estimate elk population dynamics, habitat selection and movement through remote and rugged terrain. A key component of this project is building collaborative research partnerships among ecologists and wildlife biologists at the Karuk Department of Natural Resources (KDNR), UC Berkeley, and the California Department of Fish & Wildlife. Another focus of the project is building the long term capacity of the KDNR Wildlife Division to conduct research and monitoring of elk herds and habitat across Karuk Aboriginal Territory. This is a 2-year position (1 year appointment with 1 year extension based on satisfactory performance).

Postdoc Duties:

We are seeking a postdoctoral scholar to work with our team in performing the analysis of GPS collar data, DNA, and camera trap data, and to draft peer-reviewed publications from this dataset.

Duties include:

- Utilize past experience and/or perform background research to assess the most effective population estimation approaches given multiple data sources available (*i.e.*, camera traps, DNA, GPS collars).
- Coordinate analyses of genetic, spatial, collar and camera data and develop models to utilize these data for population estimation and habitat use.
- Assess how fuels treatments may impact elk habitat use and movement.
- Lead writing of project reports and peer-reviewed publications.
- Work with KDNR and project partners to:
 - Provide advice on questions about data collection.
 - Analyze genetic, camera and collar data to estimate local distribution and population dynamics of elk herds and writing up summary reports.
 - Communicate project findings to multiple audiences in presentations or via educational materials.
- Supervise graduate and undergraduate assistants in various stages of data management.

Basic Qualifications:

Advanced degree or enrolled in advanced degree program at the time of application.

Additional Qualifications:

PhD (or equivalent international degree) required by the appointment start date. The candidate may have no more than four years of post-degree research experience by start date

Preferred Qualifications:

- Experience working with geospatial data, camera traps, DNA analyses, and/or population modeling.
- Proven ability to work in a team and build relationships across multiple organizations.
- Ability to follow tribal oversight and data stewardship protocols.
- Commitment to tribal wildlife program development and capacity building.

Salary and Benefits:

The annual salary range for this position is \$50,760 - \$59,100. Salary will be commensurate with qualifications and experience. Generous benefits are included (<http://vspa.berkeley.edu/postdocs>)

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Review of applicants will begin August 15, 2019 and continue until the position is filled. The intended start date for this position is September or October 2019, but this is negotiable. This is a full-time 100% appointment.

Interested individuals should include a 1-2 page cover letter that summarizes research experience and qualifications along with a current CV and the names and contact information of two references. Letters of reference may be requested for finalists.

Please email application materials to Justin Brashares: brashares@berkeley.edu and Luke Macaulay: luke.macaulay@berkeley.edu