

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY, PALEOGENOMICS LAB
Postdoctoral Scholar – Employee, Paleogenomics

Applications are invited for a Postdoctoral Scholar position in the Paleogenomics Laboratory at the University of California Santa Cruz. The Paleogenomics lab uses genomic data isolated from the preserved remains of plants and animals that lived during the last ~1 million years to better understand how genetic diversity is generated and maintained within populations through time, and the importance of climate change and inter-species interactions in shaping the present-day distribution and abundance of species. The Paleogenomics Lab is jointly run by Professors Beth Shapiro (Department of Ecology and Evolutionary Biology) and Richard Green (Department of Biomolecular Engineering), and combines experimental and computational approaches to address a variety of paleogenomics topics.

We seek a Postdoctoral Scholar to participate in an international collaboration whose goal is to improve the efficiency of DNA isolation and genomic library preparation protocols that are used when working with ancient and historic remains. The Postdoctoral Scholar will use these new techniques to develop a research project within one of the major research themes of the laboratory, for example how environmental change and/or inter-species hybridization affects the distribution of genomic diversity within a population or species.

The successful candidate will work cooperatively with a team of scientists including molecular biologists, geologist, paleontologists and biostatisticians to

- Refine laboratory protocols for the extraction, amplification, and characterization of ancient DNA.
- Develop new protocols to enrich ancient samples for genomic targets of interest, for example specific loci or complete genomes.
- Develop a focal project that will add to the growing body of data describing global changes in biodiversity within the last 100,000 years.

RANK: Postdoctoral Scholar—Employee

SALARY RANGE: From \$39,264 to \$50,628; commensurate with qualifications and experience.

MINIMUM QUALIFICATIONS: A Ph.D. in evolutionary biology, genomics, population genetics, bioinformatics, or other relevant fields is required along with relevant laboratory experience and demonstrated record of accomplishment. Knowledge of and experience troubleshooting DNA extraction, PCR amplification, genomic library preparation, and DNA sequencing protocols is essential. Experience with next-generation sequencing and analysis of NGS data, including phylogenetic and population genetic approaches to the statistical analysis of genomic data, is necessary. Other requirements include excellent organizational, verbal communication, and collaboration skills and willingness to travel to field sites and museums.

PREFERRED QUALIFICATIONS: The ideal candidate will have experience working in a clean-room environment, some basic programming skills and familiarity working in UNIX environment. Experience in the analysis and manipulation of large, population genomic data sets is also preferred.

POSITION AVAILABLE: As soon as possible. Full consideration will be given to all applications received before February 15, 2014. The position will remain open until filled.

TERM OF APPOINTMENT: One year, with possible extension, contingent upon funding and a positive performance review.

TO APPLY: Electronic submissions are preferred. Applicants should send: 1) Curriculum Vitae, 2) a one-page statement of research interests, and 3) contact information for three references* to bashapir@ucsc.edu. You will receive email verification that your electronic submission has been received; please inquire if you do not receive verification. Please always refer to position **PDS3571G**.

*All letters will be treated as confidential per University of California policy and California state law. For any reference letter provided via a third party (i.e. dossier service, career center), direct the author to UCSC's confidentiality statement at <http://apo.ucsc.edu/confstm.htm>

CLOSING DATE: Review of applications will begin on 20 February, 2014. To ensure full consideration, applications should be complete by this time. The position will remain open until filled, but not later than 31 August, 2014.

UC Santa Cruz faculty make significant contributions to the body of research that has earned the University of California the ranking as the foremost public higher education institution in the world. In the process, our faculty demonstrate that cutting-edge research, excellent teaching and outstanding service are mutually supportive.

The University of California, Santa Cruz is an Affirmative Action/Equal Employment Opportunity Employer, committed to excellence through diversity. We strive to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees.

Inquiries regarding the University's equal employment opportunity policies may be directed to: Office for Diversity, Equity, and Inclusion at the University of California, Santa Cruz, CA 95064; (831) 459-2686. Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain UCSC positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check. More information is available [here](#) or from the Academic Personnel Office (APO) at (831) 459-4300.

If you need accommodation due to a disability, please contact the Academic Personnel Office at apo@ucsc.edu (831) 459-4300.

VISIT THE APO WEB SITE AT: <http://apo.ucsc.edu>

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