

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

JACK BASKIN SCHOOL OF ENGINEERING DEPARTMENT OF BIOMOLECULAR ENGINEERING

Postdoctoral Scholar, Genome 10K Sample Collection

Applications are invited for a Postdoctoral Scholar position to develop and communicate the Genome 10K sample collection in the laboratory of David Haussler, Professor of Biomolecular Engineering at UCSC, in conjunction with Oliver Ryder, Kleberg Chair of Genetics of the Zoological Society of San Diego and Adjunct Professor of Biology at UCSD, and Stephen O'Brien, Chief of the Laboratory of Genomic Diversity at the National Cancer Institute.

The [Genome 10K project](#) aims to assemble a genomic zoo—a collection of DNA sequences for 10,000 vertebrate species, approximately one for every vertebrate genus. The trajectory of cost reduction in DNA sequencing suggests that within a few years it will be feasible to sequence a fully representative set of more than 10,000 genomes, capturing much of the genetic diversity of vertebrate species. This would represent an unprecedented resource for the life sciences and for worldwide conservation efforts. The growing Genome 10K Community of Scientists (G10KCOS), made up of leading scientists representing major zoos, museums, research centers, and universities around the world, is dedicated to coordinating efforts in tissue specimen collection that will lay the groundwork for a large-scale sequencing and analysis project. The project will capture biodiversity available from the world's vertebrate species such that the resulting sample collection is as comprehensive as possible, well-documented, available for general research use, and suitable for accurate whole-genome sequencing with current and anticipated high-throughput DNA sequencing technologies ([Journal of Heredity, November 2009](#)).

The successful candidate will work cooperatively with the G10KCOS to achieve the following:

- Develop and improve a web-searchable database that documents the major international holdings of vertebrate tissues.
- Undertake a pilot project in which samples from all 130 orders of vertebrates are collected and portions of their genomes sequenced. This includes designing and executing the pilot as well as analyzing the results.
- Help with further curation and verification of the specimen database.
- Contribute to the planning for the main Genome 10K project to sequence and analyze 10,000 species.

RANK: Postdoctoral Scholar—Employee

SALARY RANGE: From \$38,088 to \$50,628; commensurate with qualifications and experience

MINIMUM QUALIFICATIONS: A Ph.D. in evolutionary biology, bioinformatics, computer science, genomics, population genetics, or other relevant fields of biology is required along with relevant bioinformatics experience and demonstrated record of accomplishment. Familiarity with SQL and web tools and the ability to write new code in a UNIX environment are essential. Some experience with DNA sequencing is necessary. Other requirements include excellent organizational, verbal communication, and collaboration skills and willingness to do extensive international travel.

PREFERRED QUALIFICATIONS: The ideal candidate will have some experience with sample collection, classification, and analysis in evolutionary biology, experience in relational databases, and experience with high-throughput DNA sequencing.

POSITION AVAILABLE: As soon as possible.

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

TO APPLY: Applicants should submit a letter of application, curriculum vitae, research statement, and contact information for three references. Please apply online at <http://genome10k.org/postdocposition> to Search Committee—Genome 10K Postdoc. *Electronic submission is preferred.*

Alternative mailing addresses:

Search Committee, Genome 10K Postdoc
cbsehr@soe.ucsc.edu or
University of California
1156 High Street, Mail Stop: CBSE-ITI
Santa Cruz, CA 95064

Please refer to position #PS-G10K in your reply.

CLOSING DATE: Position is open until filled.

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If you need assistance due to a disability please contact the Academic Personnel Office at 499 Clark Kerr Hall (831) 459-4300. This position description is available in alternate formats, which may be requested from Academic Personnel at (831) 459-4300.