



UNIVERSITY OF CALIFORNIA
SANTA CRUZ

**UNIVERSITY OF CALIFORNIA, SANTA CRUZ
DEPARTMENT OF BIOMOLECULAR ENGINEERING
GENOMICS INSTITUTE**

Assistant Research Scientist, Computational Genomics Lab

The Genomics Institute (<https://ucscgenomics.soe.ucsc.edu/>) at UC Santa Cruz (UCSC) invites applications from outstanding scientists for the position of Assistant Research Scientist with the Computational Genomics Laboratory, under the direction of Assistant Professor Benedict Paten. We seek a self-motivated, creative scientist who is experienced in biological data analysis and who has knowledge and experience in software development and programming in order to successfully develop data structures and algorithms for storing, indexing and searching multi-petabyte scale repositories of genomic and transcriptome data. The Assistant Research Scientist will provide technical leadership and direction to a software development team; serve as principal investigator on federal grant awards and contracts and on privately funded projects; apply for external grant funding; publish in scientific journals; and present findings at scientific meetings.

Specific projects in which the Research Scientist will play a significant role include the following: the Human Genome Variation Map, a project to construct a comprehensive representation of human genetic variation; the Genome 10K project to sequence and assemble the genomes of 10,000 vertebrate genomes; and the Human Cell Atlas (HCA) project to build a comprehensive atlas of human cell types and expression profiles. The Research Scientist will also liaise with the Global Alliance for Genomics and Health, which is working on open standards for communicating genomics information in both research and health care contexts. The incumbent will work productively across all of these projects, which share a common management structure on the UCSC side.

The successful candidate will be highly articulate and have demonstrated ability to collaborate with scientists, software engineers and students in developing novel computational tools or resources. Applicants with extensive knowledge of software and algorithms for substring indexes are encouraged to apply.

Our exceptional collegiality and interdisciplinary collaborations make UCSC an excellent environment for an innovative scientist who can benefit from and contribute to the rapid growth in the sciences and engineering at UCSC.

RANK: Assistant Researcher

SALARY: Minimum of \$91,700, commensurate with qualifications and experience.

BASIC QUALIFICATIONS:

- Ph.D. or equivalent foreign degree in bioinformatics, computational biology, genomics, or a related discipline.
- Software development experience (including experience designing algorithms and developing software tools and databases for genomics research in general).
- Experience working in and coding for a UNIX or Linux environment with large cloud based clusters, large databases, and large code bases.
- Record of scientific publication in peer-reviewed research journals and at major scientific meetings.
- Experience with the C/C++ programming languages as well as other languages and shell scripting.

POSITION AVAILABLE: As soon as possible after the initial review of applications.

TERM OF APPOINTMENT: Initial appointment is for two years. Should the hiring unit propose reappointment, a review to assess performance will be conducted. Reappointment is also contingent upon availability of funding.

TO APPLY: Applications are accepted via the UCSC Academic Recruit online system, and must include a letter of application addressing how you meet the position's qualifications, a curriculum vitae, a list of peer-reviewed publications (your list must include a minimum of two publications but not more than ten), and three confidential letters of recommendation*. Documents/materials must be submitted as PDF files.

APPLY AT <https://recruit.ucsc.edu/apply/JPF00457>

Refer to Position #JPF00457-17T in all correspondence.

*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 July 13, 2017. To ensure full consideration, applications should be complete by this date. The position will remain open until filled, but not later than June 30, 2018.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. UC Santa Cruz is committed to excellence through diversity and strives 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.

UCSC is a smoke & tobacco-free campus.

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>

6/13/17