UNIVERSITY OF CALIFORNIA, SANTA CRUZ

CENTER FOR BIOMOLECULAR SCIENCE & ENGINEERING
Assistant Research Scientist, Comparative Genomics

The Center for Biomolecular Science & Engineering (CBSE) at UC Santa Cruz invites applications from outstanding scientists for the position of Assistant Research Scientist in Comparative Genomics. We seek a self-motivated, creative scientist experienced in biological data analysis and having extensive programming knowledge to maintain an independent research program serving as principal investigator on federal grant awards and contracts and on privately-funded projects in the areas of molecular evolution, human variation, cancer genomics, and immunogenomics. The incumbent will be expected to publish in top-tier scientific journals and present findings in scientific meetings. In the course of research, the incumbent will create algorithms, applications programming interfaces, and software systems used for comparative genomics by both the UCSC group and external groups. It is expected that the incumbent, as part of the UCSC comparative genomics group, will work with research groups at other institutions to set standards in the field. 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.

Specific projects in which the candidate may play a significant role include the following, all of which have a substantial comparative genomics component: the Genome 10K project, an effort to sequence a reference genome for each of 10,000 vertebrate species to understand how complex animal life evolved through changes in DNA and use this knowledge to become better stewards of the planet; the UCSC reference human genome project, associated with the UCSC Genome Browser, to map the world's biomedical data to a common reference human genome, unleashing the power of the Internet for biomedical research; the UCSC cancer genomics project, a collaborative effort with The Cancer Genome Atlas (TCGA), which is the National Cancer Institute's flagship cancer genomics project, a Stand Up to Cancer Dream Team involved in finding targeted therapies for breast cancer subtypes, the International Cancer Genome Consortium, and other groups to completely map the genetic changes that occur in different cancers; and the UCSC immunogenomics project, a new effort to map human genetic variation in the MHC region and other regions of the human genome that are important in immunology, including T-cell receptor sequences and B-cell antibody sequences associated with immune response. The ideal candidate would lead a team building fundamental comparative genomics infrastructure that is applied in all four areas and have experience collaborating with national and international scientific research consortia. In addition, candidates with current knowledge of the fields of cancer genomics, epigenomics, and immunogenomics; experience developing efficient methods for multiple-genome alignment; experience mapping, assembling, aligning, and analyzing large-scale next-generation sequencing data are highly desired.

RANK: Assistant Research Scientist

SALARY: Commensurate with qualifications and experience

MINIMUM QUALIFICATIONS: Ph.D. in bioinformatics, computational biology, genomics, or a related discipline with at least 2 years relevant postdoctoral research experience; experience designing algorithms and developing software tools or computational resources for genomics research; experience working in and coding for a UNIX or Linux environment with large clusters, large databases, and large code bases; record of scientific publication in the area of comparative genomics in peer-reviewed research journals and at major scientific meetings; fluency with mathematical theories in genetics and comparative genomics and with current bioinformatic methods and research. The successful candidate will be highly articulate and have demonstrated ability to lead software engineers and students in developing novel computational tools or resources.

TERM OF APPOINTMENT: Initial appointment is for 2 years. Should the hiring unit propose reappointment, a review to assess performance will be conducted. In addition, reappointment is contingent upon availability of funding.

START DATE: June 1, 2012

TO APPLY: Please apply online at **http://cbse.soe.ucsc.edu/job-application-research** to Search Committee, Assistant Research Scientist, Comparative Genomics. Applications should include a cover letter, a curriculum vitae, the names and contact information for three references*, and a list of not more than 10 research papers that includes URLs. You may submit copies of research papers that are not available online. *Electronic submission is preferred.*

Alternative mailing addresses:

Search Committee, Assistant Research Scientist, Comparative Genomics
cbsehr@soe.ucsc.edu or
University of California, Mail Stop: CBSE-ITI
1156 High Street
Santa Cruz, CA 95064

Please refer to position #T12-32 in your reply.

All letters will be treated as confidential documents. Please direct your letter writers to UCSC's **Confidentiality Statement.*

CLOSING DATE: Position is open until filled. To ensure full consideration, applications must be **received** by **March 1, 2012**. Applications received after this date may not be considered.

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: Equal Employment Opportunity/Affirmative Action Office 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.

If you need assistance due to a disability please contact the Academic Personnel Office at 499 Clark Kerr Hall (831) 459-5579. This position description is available in alternate formats, which may be requested from Academic Personnel at (831) 459-5579.