

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BIOMOLECULAR ENGINEERING

Research Specialist

Bioinformatics/ HIV-1 Vaccine Research

Applications are invited for a Research Specialist position within the [Biomolecular Engineering Department](#) of the Baskin School of Engineering. An experienced bioinformatics specialist is sought to join a research program focused on HIV vaccine research and antigenic variation. This is an ideal position for someone with a bioinformatics background that is interested in expanding their skill set to include training in “wet lab” molecular biology and immunology. The position requires training and experience in relational database design and development, the alignment and analysis of large DNA and protein datasets containing multiple insertions and deletions, phylogenetic analysis, and the ability to import and analyze data from public databases. The candidate will be expected to interface with bioinformatics specialists at several institutions on a collaborative project to characterize intra-patient and inter-patient HIV sequence variation and to relate virus variation to neutralization sensitive and resistant phenotypes. The position also requires coordination, assembly, and analysis of new sequence data generated by the “next generation” DNA sequencers. The successful candidate needs to have an excellent understanding of the basic principles of protein structure, be able to work with large public databases including the UCSC Human Genome Browser, Genbank, and the Los Alamos HIV Sequence Database. The successful candidate will also be expected to be the local repository of information on the use of common laboratory software for statistics, computational tools for molecular biology such as alignment software, restriction mapping, primer design, motif recognition, and recombination analysis. Familiarity with C and SQL programming languages and the ability to write new code in a Unix environment is essential.

RANK: Associate Specialist I – Specialist V

SALARY: \$48,372 – \$95,736 (commensurate with qualifications and experience)

MINIMUM QUALIFICATIONS: Three years of relevant Bioinformatics experience and demonstrated record of accomplishment. An advanced degree in computer science, bioinformatics, genomics, population genetics, or other relevant fields of biology such as virology, microbiology, or immunology would be helpful, but not required. Other requirements include excellent organizational and verbal communication skills.

POSITION AVAILABLE: As soon as possible following closing date.

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

TO APPLY: Applicants should submit a Curriculum Vitae, a letter of application, research statement, and the names of three references (with mailing and e-mail addresses) electronically to bmechair@soe.ucsc.edu, or by mail to:

BME Specialist #T08-53
University of California
1156 High Street - MS: SOE 2
Santa Cruz, CA 95064

Please refer to position #T08-53 in your reply.

Inquiries can be sent to: bmechair@soe.ucsc.edu

CLOSING DATE: Position is open until filled. Initial consideration of applications will begin on **May 2, 2008**.

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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) 459-4300. This position description is available in alternate formats, which may be requested from Academic Personnel at (831) 459-4300.