

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
CENTER FOR BIOMOLECULAR SCIENCE & ENGINEERING
RESEARCH SOFTWARE ARCHITECT

The Center for Biomolecular Science & Engineering (CBSE) (<http://www.cbse.ucsc.edu/>) invites applications from outstanding scientists for the position of Research Software Architect for the UCSC Genome Browser, a tool that facilitates genome analysis and comparison within and across multiple species. We seek a creative, enthusiastic problem-solver to design and develop new software algorithms and tools, and to promote this major scientific resource through oral and written presentations. The successful candidate must be analytical, articulate, able to learn and integrate technical information quickly, and have a strong commitment to quality and best engineering practices. The position requires independence and self-motivation in a team environment. The Research Software Architect will design and develop new algorithms, software tools, and databases and extend existing ones. In addition, the incumbent will be responsible for creating and giving presentations about the database, software, and related technical topics to both internal and external users, writing technical papers for publication in journals and for delivery at conferences and on the Genome Browser website, and writing grant proposals to help support the project.

The UCSC Genome Browser (<http://genome.ucsc.edu>) provides views of assembled genome sequences that are integrated with details of evolutionary conservation, syntenic, genetic map markers, known and predicted genes, SNPs, transcript structure, alternative splicing, and a host of other critical data. It is used by thousands of scientists and biomedical researchers worldwide, providing the development team with many opportunities to interact with scientists and projects at the leading edge of genomics research. The CBSE also serves as the Data Coordination Center for NHGRI's Encyclopedia of DNA Elements (ENCODE) project, which is comprehensively exploring the functional elements in the human genome. New opportunities exist in the group to build on the existing UCSC infrastructure in the areas of human variation, medical genetics, and high-throughput genomics investigations of human biology.

RANK: Assistant Project Scientist or Associate Project Scientist

SALARY: Commensurate with qualifications and experience

MINIMUM QUALIFICATIONS: A Ph.D. in computer science, biology, or a related discipline, knowledge and experience equivalent to at least one year of college-level biology, and publications in peer-reviewed research journals or papers delivered at conferences are required. Significant experience working with C in a UNIX or Linux environment is essential, as is familiarity with relational database concepts or SQL or both. Knowledge of bioinformatic methods and applications and the analytical ability to study and assimilate technical structure, data, and requirements of genome analysis software also are required. The successful candidate will be articulate, with demonstrated ability to communicate and present effectively to large communities of users, and to generate enthusiasm in others to support the Genome Browser enterprise.

TERM OF APPOINTMENT: Initial appointment is for 2 years, with continuation of appointment dependent on availability of funding and positive performance review.

START DATE: As soon as possible after closing

TO APPLY: Applicants should send a letter of application, curriculum vitae, copies or URLs of not more than three research papers, and the names and contact information for three recommenders* to:

Hard Copies:	Electronic Submissions:
Search Committee—Research Software Architect Center for Biomolecular Science & Engineering University of California 1156 High Street, MS: CBSE/ITI Santa Cruz, CA 95064	cbsehr@soe.ucsc.edu

Please refer to position #T08-42 in your reply.

(*All letters will be treated as confidential. Please direct your letter writers to UCSC's Confidentiality Statement at http://www2.ucsc.edu/ahr/academic_policies_and_procedures/cappm/confstm.htm)

CLOSING DATE: Position is open until filled. To ensure full consideration, applications must be **received** by January 22, 2008. Applications received after January 22, 2008 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 Human Resources Office at 499 Clark Kerr Hall (831) 459-4300. This position description is available in alternate formats, which may be requested from Academic Human Resources at (831) 459-4300.

VISIT THE AHR WEB SITE <http://www2.ucsc.edu/ahr>

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