DESCRIPTION
The Center for Biomolecular Science and Engineering (transitioning into the Genomics Institute Organized Research Unit, https://ucscgenomics.soe.ucsc.edu/) at UC Santa Cruz (UCSC) invites applications from outstanding scientists for the position of Research Scientist within the Computational Genomics Lab (CGL), under the direction of Assistant Professor Benedict Paten. Genomics datasets will shortly be exabyte scale. We seek a self-motivated, creative scientist experienced in big-data biological data analysis, machine learning, and having extensive programming knowledge, to develop cloud-based solutions for genomics data processing. In the course of research, the incumbent will create massively scalable cloud-based storage systems, analysis frameworks, and visualization tools used for analyzing genomics and biomedical data, including making it accessible for machine learning. It is expected that the incumbent will work with research groups at other institutions to integrate infrastructure across systems using GA4GH standards.

The incumbent will be expected to lead, and provide direction to, the Computational Genomics Platform (CGP), a newly formed group within the CGL of a substantial and diverse engineering group of managers, data analysts, and software engineers. The incumbent will be expected to apply for and serve as principal investigator on grants, contracts, and private external funding. The incumbent will be expected to publish in scientific journals, present findings at scientific meetings, and foster collaborations that promote the goals of the CGP. The successful candidate will be highly articulate and have demonstrated ability to collaborate with scientists, software engineers and students in developing novel computational resources, open source projects, and community standards development. We are particularly interested in identifying candidates with the following: experience in commercial and private clouds; experience working in UNIX or Linux environments with large cloud deployments, large databases, and large code bases. This would preferably include: experience with Docker, scientific workflow systems and tools; expertise on cloud storage systems; experience on the AWS, Azure, or Google cloud environments including VM, storage, and network services; experience with search and web-based database technologies; experience in Java and Python programming languages; experience on source control, continuous integration, and tool redistribution systems; and, experience in machine learning, including current high-level frameworks.

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 will play a significant role include the following: the Human Cell Atlas Data Coordination Platform, Dockstore, the NIH Data Commons, the NHLBI TOPMed, and the Global Alliance for Genomics and Health. The ideal candidate will be able to work productively across all of these projects, which share a common management structure on the UCSC side.

ACADEMIC TITLE
Associate or Full Research

SALARY
Commensurate with qualifications and experience.
BASIC QUALIFICATIONS
Ph.D. or equivalent foreign degree in bioinformatics, molecular biology, genomics, or a related discipline; experience managing and developing software and engineering teams (three or more years), experience (five or more years) designing software tools and systems for genomics and biomedical research; record of scientific publications in peer-reviewed research journals and in giving presentations at major scientific meetings. Experience in proposal preparation and management of academic externally funded awards.

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

DURATION OF POSITION
Initial appointment will be full-time through March 2020, with the possibility of reappointment. Should the hiring unit propose reappointment, a review to assess performance will be conducted. Reappointment is also contingent upon availability of funding.

APPLICATION REQUIREMENTS
Applications are accepted via the UCSC Academic Recruit online system. All documents and materials must be submitted as PDFs.

APPLY AT https://recruit.ucsc.edu/apply/JPF00512.
Please refer to Position # JPF00512-18T in all correspondence.

Documents/Materials
- Letter of application addressing how you meet the qualifications (required)
- Curriculum vitae (required)
- Copies of peer-reviewed publications (a minimum of two are required and a maximum of ten will be accepted)

RECRUITMENT PERIOD
Full consideration will be given to applications completed by March 2, 2018. Applications received after this date will be considered only if the position has not been filled.