



JACK BASKIN SCHOOL OF ENGINEERING
BIOMOLECULAR ENGINEERING DEPARTMENT
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University of California, Santa Cruz
Department of Biomolecular Engineering
Computational Biology Postdoctoral Positions

Applications are invited for postdoctoral positions in the Stuart Laboratory in the Department of Biomolecular Engineering at the University of California, Santa Cruz. Candidates will join the highly collaborative UCSC Cancer Genomics team that participates in several national and international consortia including The Cancer Genome Atlas (TCGA) and Stand Up To Cancer (SU2C). Potential projects include the development of methods for inferring molecular pathways underlying disease onset, progression, and response to treatment, methods to assess the impact of mutations and other genomic perturbations on genetic pathways and their predicted functions in disease, and identifying therapeutic targets from the analysis of high throughput data sets. Candidates are also sought to develop integrative pathway approaches to understand the environmental impact of climate change on marine communities. As part of the Monterey Bay Aquarium Research Institute, new methods are needed to interpret RNA sequencing data collected from open ocean algal communities that play a key role in earth's global carbon cycle.

Candidates should have a Ph.D. in Bioinformatics, Computer Science, Statistics, or a related discipline. Ideal candidates should be well versed in advanced computational approaches to mine patterns from complex systems. Expertise in the following areas is of particular relevance: machine-learning and pattern recognition, reverse engineering, and probabilistic graphical models. A solid foundational knowledge of molecular biology and genetics is very important. Candidates should have strong quantitative programming skills and be familiar with mathematical and statistical programming languages such as R or matlab. A solid track record in Bioinformatics research, as evidenced by publications in the field, is required. Excellent organizational and verbal communication skills are required.

To apply, candidates should send Josh (jstuart@soe.ucsc.edu) a CV, three letters of reference, and a summary statement describing research experience and the candidate's particular interest in joining the group.

RANK: Postdoctoral Scholar – Employee

SALARY: Commensurate with qualifications and experience

MINIMUM QUALIFICATIONS: A Ph.D. in a relevant area of Bioinformatics or Computer Science with at least three years of relevant laboratory experience in machine learning, pattern recognition, reverse engineering, probabilistic graphical model theory, or a related field.

POSITION AVAILABLE: Current opening

TERM OF APPOINTMENT: Initial appointment is for one year. Should hiring unit propose reappointment, a review to assess performance will be conducted. In addition, reappointment is contingent upon availability of funding. For appointments within the University of California, the total duration of an individual's postdoctoral service may not exceed five years, including Postdoctoral service at other institutions. Under certain circumstances, a sixth year may be considered.

TO APPLY: Applicants should provide a curriculum vitae, summary of research experience and a listing of at least three references who can provide letters of recommendation*. We strongly encourage electronic submission of materials. Inquiries, applications and letters may be sent by email to Dr. Josh Stuart to jstuart@soe.ucsc.edu or by mail to:

Josh Stuart, Ph.D.
Baskin School of Engineering
University of California
1156 High Street M/S: SOE2
Santa Cruz, CA 95064

*All letters will be treated as confidential; please direct your references to UC Santa Cruz's confidentiality statement published at

http://apo.ucsc.edu/academic_policies_and_procedures/cappm/confstm.htm.