

Quantitative Biology

UC San Diego

Divisions of Biological and Physical Sciences

The University of California San Diego invites applications from outstanding candidates for multiple tenure-track or tenured faculty positions as part of a multi-year, campus-wide initiative to establish a preeminent program in the area of Quantitative Biology (qBio), emphasizing quantitative experimentation and theoretical analysis to study living systems. The qBio initiative builds on the interdisciplinary infrastructure provided by the NSF Center for Theoretical and Biological Physics, the NIH Center of Excellence in Systems Biology, the BioCircuits Institute, existing divisional strengths and various interdepartmental graduate programs. The following positions are part of a multi-year faculty hiring program at junior and senior levels.

Candidates are encouraged to apply to specific job descriptions that fit their interests; successful candidates may be affiliated with multiple academic units and will complement and participate in the development of quantitative biology across campus. All candidates must have earned a Ph.D., or equivalent degree, and a commitment to teaching at the undergraduate and graduate levels. Preference will be given to scholars with demonstrated excellence and creativity in research, scholarship, and commitment to equity and inclusion in higher education.

Quantitative Biology (10-315): The Section of Molecular Biology, Division of Biological Sciences, seeks scholars at the Assistant Professor level with a particular focus on quantitative approaches that combine mathematical modeling and molecular biology to study gene regulation and cellular signaling at the single cell level.

Quantitative Biology and Cellular Biophysics (10-318): The Department of Chemistry and Biochemistry, Division of Physical Sciences, seeks scholars at the Assistant Professor level in the broad area of cellular biophysics, ranging from molecular signaling or gene regulatory networks to biophysical properties of molecules within cells. Approaches might include, but are not limited to, innovative molecular imaging, molecular kinetics, network modeling, or theory.

Quantitative Biology (10-321): The Department of Physics, Division of Physical Sciences, seeks scholars at the Assistant Professor level in qBio, defined as the iterated dialogue of quantitative experimentation and theoretical reasoning to study living biological systems. Successful candidates will have broad interests in biological physics to complement existing strengths of the department and will have an exemplary research record in an area ranging from gene signaling to cellular mechanics.

Systems/Quantitative Developmental Biology (10-312): The Section of Cell and Developmental Biology, Division of Biological Sciences, seeks scholars at the Associate Professor level pursuing innovative research using systems, quantitative or dynamical research approaches to solve problems in Developmental Biology. Outstanding applicants at the Assistant Professor level will also be considered. Interesting areas include, but are not limited to, the generation, regeneration, or maintenance of some cell type, body system, or organ.

Evolutionary Systems Biology (10-294): The Section of Ecology, Behavior and Evolution, Division of Biological Sciences, seeks scholars at the Full Professor level pursuing innovative research in the area of evolution of multi-component interactions in biological systems. Outstanding applicants at other levels will also be considered. Preference will be given to conceptually oriented individuals who use theory and/or emerging technologies to quantify experimentally the mechanistic and causal connections between genes, function, fitness, and evolution.

Review of applications will commence by November 1, 2011 until all the positions are filled. Interested applicants must submit a cover letter, curriculum vitae, statement of research, statement of teaching, a statement describing their past experience and leadership in equity and diversity and/or their potential to make future contributions, and contact information for 3-5 references. Applications must be submitted through the University of California San Diego's Academic Personnel RECRUIT System at <https://apol-recruit.ucsd.edu/>.

UCSD is an equal opportunity / affirmative action employer with a strong institutional commitment to excellence and diversity (<http://diversity.ucsd.edu/>).