



Open Position in Computational Biophysics (Molecular Dynamics Simulations)

Altos Labs - San Diego Institute (SDI)

Z. Levine Laboratory

La Jolla, California

Expected Start Date: 6/1/22 (negotiable)

Summary

The Z. Levine Laboratory is excited to be recruiting an **experienced computational biophysicist or chemist** to work at the interface of **cellular health and resiliency**. The successful candidate will have access to world-class supercomputing resources and will work alongside a multidisciplinary team of biophysicists, chemists, and biologists to integrate knowledge across a wide range of experiments in cellular aging, senescence, and reprogramming. This key role will work with the PI to design molecular dynamics (MD) simulations of proteins, small molecules, and lipids to investigate cellular proteostasis. Integration of computational datasets with fluorescence microscopy and spectroscopy will be central to this role. Therefore, the successful candidate should also be familiar with solution biophysics techniques such as FRET, FRAP, FCS, and liquid chromatography. Knowledge of open-source integrators (e.g. GROMACS) and interfaces (e.g. Maestro) is also preferred, in addition to familiarity with enhanced-sampling techniques such as REMD or metadynamics.

The successful candidate should also be an expert in Linux-based HPC environments and capable of managing diverse computational workflows and datasets. Preference will be given to candidates with experience (or interest) in combining biological data with biophysical measurements. Those with partial expertise in these techniques who express a compelling interest to learn are also encouraged to apply.

Candidates should hold a PhD in Physics, Chemistry, or a related field, and must demonstrate a strong track record of conspicuous scholarship, mentorship, and scientific publications.

Salary and benefits will be commensurate with years of experience and is highly competitive with top biotechnology companies. Candidates with diverse backgrounds that value equity, inclusion, and belonging are especially encouraged to apply for this position.

How to Apply

Please send the following documents to zachary.levine@yale.edu

- 1.) A Current CV or Resume**
- 2.) A Representative Publication**
- 3.) A One Page Summary of Past Research Projects**
- 4.) A List of Three Letter Writers (Names and Email Addresses) to Endorse the Candidate**