



POSITION: Theoretical/Computational Biophysicist

JOB ID: 62074

MANAGER: Anup Singh

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DEPARTMENT DESCRIPTION

The Biosystems Research Department at Sandia/California performs biological research pertinent to national security, health security, and energy security. We are a highly interdisciplinary research group that focuses on both basic and applied biological research. We have ongoing projects in the areas of biofuels, metabolic and protein engineering, infectious disease research, medical diagnostics, and therapeutics screening, as well as basic research studies in biomaterials design, protein structure/function determination, proteomics, computational chemistry, computational biology, and microfluidics.

JOB DESCRIPTION

We are seeking a theoretical or computational biophysicist with significant modeling and simulation experience that can be applied to functional genomics and proteomics research. The scientist will lead independent computational-biology research projects that are pertinent to biodefense and bioenergy. The candidate will also provide modeling and bioinformatics support to ongoing experimental projects in the department. In addition, the biophysicist will be expected to establish and lead a computational biology group by hiring postdoctoral researchers and attracting research funding.

QUALIFICATIONS

This position requires a PhD in the biological sciences, biophysics, computational biology, or a related discipline. Candidates must also have at least 5 years of postdoctoral research experience. Applicants should also have significant experience in modeling, simulation, and bioinformatics tools used in one or more of the following areas: structural biology, functional genomics, proteomics, and metabolomics. Other job requirements include a demonstrated understanding of biophysical and -omics techniques, knowledge of the protein structure/function relationship, and experience with statistical analyses of genomic and proteomic data. In addition, candidates must have a strong record of high technical achievement, as evidenced by publication in high-impact scientific journals, and the demonstrated ability to conduct creative, independent research.

Hands-on experience with building and maintaining Web-based data-sharing portals is considered a plus for this position.

Candidate must be able to obtain a U.S. Department of Energy security clearance for this position. To obtain a security clearance, U.S. citizenship is required.

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