

Research Associate, Biochemistry and Biophysics Silicon Therapeutics

Job Summary

Silicon Therapeutics is seeking an enthusiastic, motivated and capable individual with experience in recombinant protein production, protein crystallization, *in vitro* biochemical assay development and biophysics. This person will work closely with project leaders and other members of the biology group to produce highly pure proteins, support structural biology efforts, design and execute a variety of *in vitro* biochemical assays and provide biophysical characterization. This is an exciting role for a scientist who is looking to work independently in a fast-paced startup atmosphere. This scientist will be an integral member of the project teams. The successful candidate will also work closely with the lab manager to establish good laboratory practices and SOPs for the new laboratory including protocols for ELN, data management and compound/reagent management.

Job Responsibilities

- Design and generate protein expression constructs. Express and purify high-quality recombinant proteins for use in crystallization screening, *in vitro* biochemical assays and biophysical assays.
- Conduct co-crystallization screening, optimize crystallization conditions and harvest crystals for data collection.
- Work with project leaders and other members of the biology group to design, execute and interpret results for a variety of biochemical and biophysical assays in support of drug discovery efforts.
- Carefully manage and document research workflows, data and protocols using ELNs.
- Assist in working with external research partners as needed to execute studies, format and integrate data in ELNs and databases.
- Organize and present data to project team leaders and contribute to research publications.
- Serve as a member of the project teams and effectively work with others in a highly integrated, collaborative research environment.

Required Skills & Qualifications

- B.S. / M.S. in biochemistry, biophysics or related discipline with 3+ years of industry research experience in recombinant protein generation, protein crystallization, *in vitro* biochemical assay development (enzymatic, Fluorescence, FP, FRET) and biophysical characterization (SPR, ITC, etc.).
- Extensive hands-on experience in protein expression, purification and co-crystallization.
- Experience with protein characterization and QC using analytical SEC and DLS.
- Experience with industry level assay development and QC and the use of robotics for liquid handling, automated data collection, etc.
- Experience with biophysical characterization of small molecule-protein interactions using surface-plasmon resonance (SPR).
- Demonstrated ability to work independently to troubleshoot and optimize experiments.
- Experience working with external research partners to conduct experiments a plus.
- Understanding of relevant programs for data analysis and visualization.
- Excellent communication and presentation skills.
- Experience working as part of cross-disciplinary project teams.

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