**Postdoc Job Description**

Boehringer Ingelheim is currently seeking a highly motivated individual to join our Process Science department located in **Fremont, CA**. The qualified candidate will play a leading role in developing advanced cell culture technologies for process monitoring and improvement. Specifically, the candidate will work on creative ways to identify molecular/cellular markers or mechanisms associated with/responsible for cell lines or cell culture conditions with super high productivity. The candidate will routinely culture mammalian cells producing recombinant proteins and use biochemical, molecular and cellular biology techniques to analyze the structures and metabolic activities of these cells at the molecular, subcellular, and cellular levels. Overall, the successful candidate should be capable of independent research, applying creativity to solve technical challenges, creating innovative solutions, and pioneering new directions in order to achieve the overall objective of the project. The candidate is expected to be able to adapt to changing priorities quickly while ensuring successful delivery of the goals.

**Duties & Responsibilities**

- Perform hands-on experiments of cell culture in shake flasks and benchtop bioreactors, studies of the structures and activities of cells, organelles, and metabolic pathways using microscopy, flow cytometry, biochemical and enzymatic assays, and investigation of the structural and functional changes of cells and organelles responding to high recombinant protein production.
- Routine use and development of programs such as JMP, Spotfire, Excel macros for data analysis and modeling are required.
- Support some routine lab operation tasks such as equipment maintenance and lab housekeeping activities.
- Collaborate and work effectively in teams to meet the project timelines.

**Requirements**

- The position requires a Ph.D. in biochemistry, biochemical engineering, bioengineering, chemical engineering, cell and molecular biology or any related fields with 0-2 yrs of relevant research experience.

**Desired Experience, Skills and Abilities**

- Fundamental understanding of biochemistry, cell biology, biotechnology, or chemical engineering
- Hands on experience with aseptic techniques, microbial and/or mammalian cell culture is a must
- Experience in studying physiology and metabolism of cells is highly desired
- Use of established tools such as microscopy, flow cytometry, subcellular fractionation, protein and enzyme isolation and function studies, metabolic flux analysis, and metabolomics for biological interpretation to support development is strongly desired
- Strong communication and organization skills, be able to multi-task and exhibit a strong sense of urgency in order to accomplish daily tasks
- Highly self-motivated, be flexible, and willing to learn

**Contact**

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