We are seeking for a Post Doc in our Late-Stage Upstream Development group.

We develop mammalian cell culture-based, state-of-the-art bioprocesses to produce high-quality biologics. This includes optimizing process and media conditions as well as preparing process scale up to manufacturing scale. Automation and bioprocess modelling are further key areas in process development. Scientific excellence and innovation are our main drivers in developing robust, scalable, and high-performing manufacturing processes.

This position is limited for two years.

Note: To make it easier to find our job advertisements, we use the usual designation "Post Doc". Of course, this advertisement is not only addressed to applicants directly after completing their doctorate, but to all qualified candidates.

Discover our Biberach site: xplorebiberach.com

We are looking forward to welcoming candidates ideally having a strong background in experimental bioprocess engineering but also in mathematical modelling approaches or automation. It is not needed to fulfill all requirements. Various tasks are available which can be selected in accordance with the applicant's skills.

Tasks & responsibilities

- In your new role you act as scientific expert in the area of cell culture bioprocess development with a strong background in mathematical modelling of bioprocesses.
- You develop appropriate cell culture models based on mechanistic, hybrid, statistical and machine learning approaches, to address scientifically and industrially relevant challenges.
- Furthermore, you have the possibility to augment these models with systems biotechnology approaches such as metabolic flux analysis or transcriptome analysis, but also with data from PAT technologies to develop advanced process control strategies.
- You are responsible for experimental planning of cell culture processes and subsequent analysis of diverse cell culture process data using advanced statistical, modeling and software tools.
- As project leader and principal investigator in your field of expertise you drive the implementation of your results both in cell culture process development and future biopharmaceutical manufacturing.
• In addition, you are responsible for the supervision of students and project related interfaces with departments for downstream development, analytical development and production.

Requirements

• PhD. in (Bio-)Process Engineering, Biotechnology, Bioinformatics or similar discipline with experience in model development and simulation, parameter estimation, model analysis and validation, and model application for bioprocess optimization
• Programming skills in languages such as Python, R or Matlab
• Experience with systems biotechnology tools and metabolic flux analysis
• Sound knowledge of statistical design of experiments and multivariate data analysis
• Experience with modelling of Chinese hamster ovary cell cultivation processes and culturing in bioreactors are beneficial
• Team player with excellent communication skills
• Fluency in spoken and written English, German is beneficial

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This is where you can grow, collaborate, innovate and improve lives.

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