

Job opportunity at Astra Zeneca

Main Duties and Responsibilities

As a Purification Research Associate I or II in Bioprocess Technology and Engineering (BTE), you would join a team developing AstraZeneca's Next Generation Manufacturing Platform. You and the team would develop the continuous and integrated purification platform for biological therapeutics, including antibodies, bispecific antibodies, and Fc-fusions. You would apply the Next Generation Manufacturing methods to drug candidates in Phase I, II, and those entering Phase III. As the molecules progress through the development lifecycle, you will have opportunity to develop the process characterization methods to support commercialization. You would work on a matrix team with members from cell line development, cell culture development, purification development, analytical development, formulation development, and data analytics and modelling. You would have opportunity to operate small scale purification systems (such as Akta systems) commercial-scale prototypes supporting 50-100L mid-scale perfusion bioreactors that would be linked to mid-scale downstream. Your work would be used to design processes so that they can be scaled to 2000L single use vessels, capable of making tons of recombinant protein per year. You and the team would develop a semi-continuous, linked downstream, and could operate, debug and program a prototype pilot and commercial scale downstream equipment prior to moving the equipment into a GMP manufacturing facility. You would also develop data used to design of the GMP equipment.

You would be responsible for working jointly with your upstream colleagues to link the bioreactor to the purification process.

You will present at internal departmental and cross-functional meetings, and may participate and present at external meetings.

Essential Requirements

A Bachelors or Masters Degree in a scientific or engineering discipline with a focus in a process engineering field (e.g., chemical or biochemical engineering) is strongly preferred.

- Industry related experience Research Associate I (BS with 0-4 years) or RA II (BS 2-6, MS 0-2). Industrial experience developing or supporting clinical or commercial biotechnology is not required.

Desirable Requirements

- Fundamental and practical understanding of downstream unit operations
- Experience with GMP equipment design and use of data management systems.
- Skilled in problem-solving.
- Knowledge of GMP manufacturing principles is desired.
- Skilled in effectively explaining complex scientific or engineering concepts to a broader, diverse, cross-functional audience.