Master thesis project - Mechanistic modeling of mAb polishing HIC step

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Master thesis: Mechanistic modeling of mAb polishing in a HIC flow through step

What you’ll do

You will be optimizing a hydrophobic interaction chromatography (HIC) mAb polishing step. This work will consist of experimental lab work and mechanistic modeling using the GoSilicoTM Chromatography Modeling Software. The lab work includes determining good binding conditions of mAb on HIC, performing bind & elute as well as flow through model calibration experiments and investigating different salts. Based on these experiments you will calibrate a mechanistic model by comparing different model calibration modes and optimize the polishing step.

Who you are

You are in the end of your Master studies in biotechnology/ biochemistry with an interest in modeling. Further, you like to work independently with a structured approach. Ideally you already have gathered some experience in the lab. Experience in mechanistic modeling is desired but not required.
Contact Person: Patricia Roch, patricia.roch@cytiva.com

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