Bachelor / Master thesis:

Building a mechanistic model for a new chromatographic multi-column device

Keywords: Model, CADET, Python, chromatography, MCC

Project description

The building of models has become an essential parts of process development in the biotech industry. With these, process understanding and process automation are advanced, while practical work can often be reduced. In this project, a model for the purification of a tagged ligand will be designed and used for process automation. We apply a multi-column chromatography system (OCTAVE Bio, Tosoh). The aim of your work will be to characterize the system components and implement
A mechanistic model in CADET, a Python-based application.

Profile

- Student of Biotechnology or similar with modeling interests
- Student of automation technologies or similar with biotech interest
- Eager to learn new
- Motivated to solve problems
- Independent work style

Tasks

- Characterize OCTAVE Bio with tracer experiments (hands-on lab work)
- Build model of system in CADET
- Adapt the model with chromatographic columns

Contact

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