



## Master Thesis Project - Computer Human Interaction Project (Testa Center)

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### Background

Cytiva Life Sciences is a global provider of technologies and services that advance and accelerate the development, manufacture, and delivery of therapeutics. The number of so-called biological drugs are quickly increasing and the production of these kind of drugs relies on the usage of biological systems, e.g., bacterial or mammalian cells. Cytiva is one of the world's leading suppliers of hardware, software, and consumables for the cultivation of cells and the production of biological drugs.

### What you'll do

The project is in the field of life science and more specifically around production of biological products. Even more specifically, the project is focused on the user experience of an instrument for the so called "upstream" part of the production procedure of biological drugs, involving cultivation of bacterial cells in a pilot scale bioreactor. Currently, the bioreactor system for this project, placed in Testa Center, is equipped with a control software (SW). This SW, in its current state, needs to be

redesigned and purpose build with improved user experience having a relatively inexperienced user in mind.

Initially the student will make him/her-self acquainted with the bioreactor and how it is currently controlled with existing hardware and SW solution. In addition, early in the project a usability study will be performed where both new and experienced users of the system will be followed/observed to map the workflow and to delineate pain points. The student will perform research for, and suggest, and iterate, possible UI design solution(s) for a potential future bioreactor control software. A detailed set of design goals will be described and specified, and an overall vision and idea of the finished UI will be presented. The work is finalized with an overall report, documentation, and presentation.

## Who you are

- Student in Human-Computer Interaction/UxD, Computer Science with specialization in UX/HCI or equivalent.
- Interest in Molecular Biology, Biology, Biotechnology, Biochemistry or Chemistry will be considered an advantage.
- Available to take on master thesis project work during the spring semester of 2023.
- Any experience or prior knowledge about cell cultivation in lab scale or in bioreactors will be considered an advantage.
- Professional working proficiency in both Swedish and English is a requirement.

For further information about project, please contact hiring manager Jesper Hedberg, [jesper.hedberg@testacenter.com](mailto:jesper.hedberg@testacenter.com)

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