Bioprocess projects offered starting September / a.s.a.p.

Project 1.1 – start in September, 10 weeks
Aim of project: to perform medium adaptation of cell line that produces a protein of interest

Project: The project will be organized with a combination of academic and industrial supervisors and expertise.

The project will in brief consist of:
- Reading bioprocess papers and pharmaceutical guidelines for a basic understanding of bioprocess and development
- Plan, execute, analyze and evaluate the results in labscale
- Test protein concentration and protein quality (ELISA) produced pre, during and post cell medium adaptation
- Hands-on cell medium adaptation of the cell line, assessing different media
- Plan, execute, analyze and evaluate the production process in pilot scale at Testa

We offer a challenging process development project with that needs your full attention to coordinate and perform both academic and industrial project activities.

If you are interested, contact:
Sara Mangsbo (PI) - sara.mangsbo@fambio.uu.se
Peter Frank – peter.frank@wicket.se
Student matters: Course coordinator Margareta Krabbe – margareta.krabbe@ibg.uu.se
Project 1.2 – fed batch testing (sep-oct)
Aim of project: to perform small-scale fed batch testing of a novel cell line with stable protein production

Project: The project will be organized with a combination of academic and industrial supervisors and expertise.

The project will in brief consist of:
- Reading bioprocess papers and pharmaceutical guidelines for a basic understanding of bioprocess and development
- Plan, execute, analyze and evaluate the results in labscale
- Setup and perform a small-scale fed-batch protocol and test this in TESTA center
- Analyze metabolites during the culture
- Analyze protein yield over time by SPR
- Report and prepare a large-scale protocol

We offer a challenging process development project with that needs your full attention to coordinate and perform both academic and industrial project activities.

If you are interested, contact:
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Project 1.3 – sept-january 20 weeks
Aim of project: Develop a purification process for a potential bio-pharmaceutical with the short term aim to set a protocol prior to entering a pilot scale at Testa Center, and long term aim to enter pharmaceutical development.

Project:
The project can be divided into two separate 10 weeks project parts, or as one 20 weeks project. The project will be organized with a combination of academic and industrial supervisors and expertise.

The project will in brief consist of:
- Reading bioprocess papers and pharmaceutical guidelines for a basic understanding of bioprocess and development
- Establish analytical methods to be used for evaluation of the process
- Plan, execute, analyze and evaluate the results in labscale
- Scaling up
- Plan, execute, analyze and evaluate the production process in pilot scale at Testa Center (test center in Uppsala in collaboration with GEHC)
- Documentation and production will be performed with the target to use the material for pre-clinical studies
We offer a challenging process development project with that needs your full attention to coordinate and perform both academic and industrial project activities.

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