



UPPSALA
UNIVERSITET



Uppsala University collaborates with Testa Center (<https://www.uuinnovation.uu.se/strategic-inititives/testa-center/> and <https://testacenter.com/>) in a five year project and have both research and education activities at Testa Center.

Testa Center is a major initiative between the Swedish government and GE Healthcare providing a pilot-scale purpose-built facility that consists of four industrial quality laboratories (non-GMP) in test-scale, with a focus on single-use technologies. The laboratories and the Center's equipment can be used for scale-up and verification of digital and technical solutions or biological projects in an authentic production setting.

Sara Mangsbo and her research group are looking for motivated students for research projects starting soon at Testa Center and at BMC. Project description attached. Welcome to apply for research training/thesis projects/internship!

Erik Jacobsson Department of Medicinal Chemistry (erik.jacobsson@ilk.uu.se) and Margareta Krabbe (margareta.krabbe@ibg.uu.se) at Biology Education Center coordinate UU research and education at Testa Center.

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 lab scale
- 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@farmbio.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 lab scale
- 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.

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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 lab scale
- 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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