

Master's Thesis Student – Biotechnology (M/F/X)

BioThrust is revolutionising cell production!

With the help of our technology, cell and gene therapies can be manufactured on a large scale for the first time. The “artificial lung” in our globally unique bioreactor enables gentle and efficient cell cultivation. We are therefore enabling the cost-effective production of effective and innovative therapies. We are looking for pioneers who want to explore this technology with us and make a significant impact. Together towards our vision: **Cell- & Gene Therapies for everybody!**

To strengthen our team, we are looking for a motivated Master's student (m/f/x) who would like to contribute to an innovative research project in the field of bioprocess engineering. The aim of the Master's thesis is the development and optimisation of Chinese Hamster Ovary (CHO) cells cultures at different scales in bioreactor. The project will focus on investigating the scalability of BioThrust's bioreactor system, and the influence of scale in cell growth and performance.

Your responsibilities

- Establishment, operation and optimisation of CHO cell cultivation processes in bioreactors at different scales.
- Characterisation of cell growth, cell viability and online and offline process performance.
- Study of relevant process parameters and cultivation outcomes to evaluate process scalability.
- Independently conducting and evaluating internal biological laboratory experiments and presenting the results in regular meetings.
- Documenting all work in accordance with applicable quality standards and standard operating procedures (SOPs).
- Contributing to and supporting general laboratory organisation.

Your profile

- Currently enrolled in a Master's degree programme in Biotechnology, Biology, Bioprocess Engineering, Life Sciences, or a comparable discipline.
- Previous experience in bioreactor operation, either for cell culture or fermentation.
- Independent, structured, and meticulous approach to work.
- A collaborative team player with a proactive, careful, and organised working style, demonstrating a high degree of personal responsibility and motivation.
- Good communication skills in English. Good level of German is an advantage.
- Good knowledge of bioreactor design principles is an advantage.
- Practical experience in mammalian cell culture and aseptic technique are an advantage.

What we offer

Impact: Your work will influence cutting-edge biopharmaceutical research and production, as well as contribute significantly to BioThrust's development.

Professional development: You will work on exciting projects at the forefront of bioprocess research, take responsibility for your tasks, and experience a steep learning curve — not only within the biotechnology sector.

Dynamic start-up atmosphere: This means fast communication and decision-making processes, flat hierarchies, and a talented and motivated team. Grow with us!

Working environment We encourage the exchange of knowledge and experience and value intellectual flexibility, unconventional approaches to problem-solving, and continuous development — both personally and as a company.

Recognition of your work: Recognition and reward for your contributions, including competitive remuneration packages.

Passion for technology: We develop new technologies — become part of the team behind the next-generation biopharmaceutical production platform. Nerds welcome!

Does this sound exciting to you? Become part of our team and actively help shape the future of BioThrust! We look forward to receiving your application including CV, relevant certificates and transcript of records (Notentranskripte) at job@biothrust.de

Diversity is the foundation of our creativity — regardless of gender, sexual identity, age, origin, or religion.