



Circular Biomanufacturing powered by CO₂-based liquid feedstocks

b.fab GmbH is a young dynamic biotechnology startup specialized in the conversion of one carbon feedstock into bioproducts. We combine electrochemical conversion with bioprocesses, starting with the feedstock formate or methanol (produced from CO₂, water and renewable electricity) and we use Synthetic Biology to design specific pathways to convert it into value-added chemicals. b.fab is dedicated to provide an economical and sustainable new way to produce value-added chemicals for various industries. Due to the expansion of our **R&D team at our site in Cologne (Germany)**, we are looking for a highly-motivated and engaged student for:

Master's thesis in Microbial Fermentation (m/f/d)

for biochemical engineers or biotechnologists

Start Date:
Sept. – Oct. 2025

Thesis Content:

- Development of a unique formatotrophic / methylotrophic fermentation process
- Development of a fed-batch and/or continuous fermentation process
- Bioprocess characterization and optimization
- Determination of process KPIs
- Transfer of screening results into lab scale
- Application of high-throughput technologies and lab automation

Your Profile:

- Studies in biochemical engineering, biotechnology or similar field
- Experiences in bioprocess development with microbials (bacteria/yeast)
- Work experience with high-throughput screening systems is beneficial
- Excellent skills in data processing / analysis and DoE
- Basic experiences in process analytics
- Excellent communication skills
- High degree of self-motivation, independency and proactive attitude is important
- Good command in spoken and written German

Our Offer:

- Chance to create and design a game changing technology
- Meaningful and inspiring work environment in a tech startup
- Coworking and supervision by industry leading engineers and biotechnologist
- Exciting opportunity for personal and professional development
- Flexible working and self-organization opportunity
- Work and Life in one of the most exciting cities in Germany (Cologne)

Are you interested?

Then please send your meaningful application and earliest start date by email to: hr@bfab.bio