



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/internship in metabolic engineering

for molecular biologist or biochemist (m/f/d)

Thesis Content:

- Establishment of a unique formate/methanol assimilation pathway
- Development of bioproduction pathways for value-added chemicals
- Engineering and evolution of microbes
- Strain characterization and optimization
- Application of high-throughput technologies and lab automation

Start Date:
Sept. – Oct. 2025

Your Profile:

- Studies in molecular biology, biochemistry or similar field
- Experience in classical and modern cloning techniques
- Work experience in microbial transformation, cultivation and characterization
- Knowledge of microbial metabolism and physiology
- Skills in data processing and programming (esp. Python) are beneficial
- High degree of self-motivation, independency and proactive attitude is important
- Excellent communication skills

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