



Within the PolyMore project, the Gram-positive bacterium *Paenibacillus polymyxa* is being developed into a platform organism for biotechnological applications. The project, carried out together with the MPI-Marburg and the NTNU Trondheim, includes genome minimization, development of CRISPR-Cas tools, the acquisition of a multi-omics based metabolic model, and the development of novel bioprocess concepts for the sustainable production of various chemical substances. State-of-the-art methods and equipment such as an automation platform, cell sorters, omics-facilities and bioreactors are available.

For the project, **two doctoral positions** at the TU Darmstadt are to be filled.

The desired requirements are as follows

- sound knowledge of the physiology and genetic manipulation of (preferably Gram-positive) bacteria
- sound experience with molecular biological methods (cloning, PCR, DNA isolation, CRISPR-Cas) as well as the cultivation of bacteria/bioprocess engineering (shaking flasks, microtiter plates, bioreactors)
- sound knowledge of English, written and spoken
- good team spirit
- passion for research
- curiosity

Advantageous skills are

- experience with enzyme catalysis and enzyme display technologies
- experience with chromatography (HPLC and GC)
- GNU/Linux, Latex and R knowledge

A university degree is required for these scientifically demanding activities. It is intended to fill the position for up to three years.

The application documents consisting of a cover letter, CV and certificates in digital form as a PDF file should be sent to **polymore@kabisch-lab.de**.