PhD Position in "Reaction Engineering in Biocatalysis" at Leibniz University Hannover, Hannover, Germany

As part of the MSCA Joint Doctoral Network Better BioBased Polymer Network, the Institute of Technical Chemistry at Leibniz University Hannover (LUH) is looking for a motivated **PhD student in the field of biocatalysis**. The PhD project (DC05) will focus on the characterization of enzymes, the construction of biocatalytic systems, kinetics analysis, enzyme immobilization, reactor engineering, process optimization, and upscaling. Under the co-supervision of Prof. Dr. Selin Kara (LUH, Hannover) and Prof. Robert Kourist (TUGraz, Graz), the work will mainly be carried out at Leibniz University Hannover with a **9-month secondment to Graz and a 4-month industrial secondment to SpinChem A.B. in Umeå (Sweden).**

The expected starting date for the project is **summer/autumn 2026**.

Candidate Profile

Candidates for the PhD position should have a Master's degree in biotechnology, bioprocess engineering or a closely related field with a genuine interest in biocatalysis, process engineering, and sustainable chemical processes. Background/experience in enzymatic synthesis or bioprocesses would be beneficial. The successful applicant will have obtained a strong academic record with excellent grades at Bachelor and Master's levels. He/she should be well-motivated, hardworking, have excellent communication skills in English, willing, and able to work as part of a team, and open to international mobility. *The candidate must not have resided in Germany for more than 12 months during the 3 years immediately preceding the start date of the contract.*

A CV, a cover letter, transcripts of academic records, and contact information of at least two academic or professional references should be sent to S. Kara selin.kara@iftc.uni-hannover.de, and R. Kourist kourist@tugraz.at

B3PO Better Biobased Polymers

Leibniz Universität Hannover

TU Graz

DC05: Reaction engineering of laccase-catalysed derivatization of lignin-derived phenolics

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