



With more than 6,200 employees in research, teaching and administration and its unique profile, TU Dortmund University shapes prospects for the future: The cooperation between engineering and natural sciences as well as social and cultural studies promotes both technological innovations and progress in knowledge and methodology. And it is not only the more than 34,600 students who benefit from that.

Open postdoctoral position in Homogeneous Catalysis (m/f/d) – Ref.-Nr. W22-21

The laboratory of Industrial Chemistry, department of Biochemical and Chemical Engineering at TU Dortmund University, is looking for a full-time postdoctoral researcher for a fixed-term employment of 18 month according to public service's wage agreement TVL 13. The position is, in principle, also appropriate for part-time employment.

The laboratory of Industrial Chemistry is one of the leading research laboratories in applied homogeneous catalysis. Research spans from the molecular design of catalysts to process development and continuous operation in miniplants. Chemists and Engineers work hand in hand to improve existing and develop new chemical transformations towards sustainable processes. Those activities embrace feedstock diversification and the use of renewable feedstocks.

The project in question of the junior research group addresses the homogeneously catalyzed conversion of oleochemicals, and feedstock diversification, under consideration of integrated catalyst recycling.

YOUR TASKS

- Preparation of catalysts and systematic optimization of reaction conditions for homogeneously catalyzed reactions of unsaturated substrates.
- Studies on the immobilization of catalysts in liquid multi-phase systems and first process development steps for continuous operation in miniplants.
- Investigations (experimental and model-based) of solvents and their systematic selection.

Application of people from all gender is explicitly desired. According to German law, applications by females will have preferential treatment.

We explicitly note that applications of qualified, severely disabled persons are welcome.

Complete applications including a cover letter, CV, a max. two-page outline of research interests, certificates and at least two contacts for further references should be sent stating reference number w22-21 until 31.05.2021 to

WHAT WE OFFER:

- You will be embedded in a high-profile research environment and in an interdisciplinary research group.
- You will benefit from personal development opportunities, a broad spectrum of lectures, as well as courses on transferable skills.
- You will be offered the possibility to attend national and international conferences.

YOUR PROFILE:

- You hold a full university degree and a doctorate in chemistry, chemical engineering or related discipline.
- You are a team-worker and fascinated by interdisciplinary science.
- You are a compliant and responsible researcher, who pushes projects forward independently.
- You are specialized in homogeneous catalysis and you have at least some experience in working with air-sensitive compounds under inert atmosphere.

WHAT YOU IDEALLY OFFER

- You have an excellent level of English language; a basic level of German language is desirable, but not mandatory.
- You are experienced in working with high-pressure equipment and have at least a basic knowledge in chemical engineering
- You have basic knowledge in the systematic selection of solvents (systems).

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For further information or specific questions, please write to www.renewlysis.com