Professorship Catalytic Interfaces for Sustainable Chemical Energy Carriers
Department of Chemistry
TUM School of Natural Sciences

Ph.D. positions in heterogeneous catalysis at the Chair 'Catalytic Interfaces for Sustainable Chemical Energy Carriers' at the Technical University of Munich

The Hülsey lab is recruiting up to 3 Ph.D. students at the Technical University of Munich (TUM) at the earliest start date, ideally in late 2024 or in the beginning of 2025. We will apply fundamental insights into heterogeneous catalytic interfaces to the sustainable manufacture of chemicals. Specifically, we are interested in how ion transport and surface phenomena affect electrocatalytic transformations.

Duration: 3-4 years (full time); 67% TV-L E13

Prof. Hülsey is seeking candidates with:

- An excellent academic track record
- A master's degree OR a four-year bachelor's degree in chemistry, chemical engineering or adjacent areas
- High motivation and joy to learn about chemistry and chemical engineering
- Strong commitment to solve some of the most pressing sustainability challenges through technology
- A deep interest to work in an international, diverse, and inclusive team
- Good communication skills (written and oral) in English
- A wide range of backgrounds, students with a broad range of backgrounds in the chemical sciences are encouraged to apply

What we offer:

- Excellent training and mentorship in different areas of catalysis
- Access to state-of-the-art research facilities and infrastructure
- Networking opportunities (both in Europe and internationally)
- Life in one of the most livable cities in Europe
- Internationally competitive salary and benefits

What you will learn:

- Catalyst synthesis
- Spectroscopic characterization
- Electrochemical mass spectrometry
- (Electrochemical) reactor design and optimization
- Ion transport measurements
- Surface kinetic measurements

Interested candidates should directly reach out to me m.huelsey(at)tum.de with the **following documents as single pdf file**:

- A current CV including the contact details of 2-3 references (include their name, their current positions and affiliations as well as their email address)
- A maximum two-page statement outlining your interest in doing a PhD as well as your broader research interests

Successful candidates will be invited for virtual interviews. Review of the applications will begin immediately and positions will remain open until filled.