

PhD position in Green Chemistry open from October 2019

Title: Waste to value – Continuous conversion of carbon dioxide using supported ionic liquids

Description: The exploitation of renewable sources for the production of chemicals is a key challenge faced by modern society. Waste carbon dioxide (CO₂) available from matured capture technologies are an attractive C1 feedstock for the generation of fuels and fine chemicals in terms of a carbon neutral cycle. The PhD project focuses on the use of supported ionic liquids as catalyst for the formation of value-added products from CO₂, relying on supercritical CO₂ as both solvent and reactant.

Required skills: Candidates should have a Diploma or Master degree in organic chemistry or related fields. Profound experience in synthesis, organometallic chemistry and catalysis, interest in ionic liquid technologies and surface science are mandatory. Outstanding motivation, willingness for teamwork and teaching aspects is a key requirement.

Candidates should be fluent in English, basic knowledge in German language is necessary.

Funding: The position is equivalent to a university assistant (30 hours) position (minimum salary is EUR 2.148,40 pre-tax, 14 x per year) for 3 years financed by TU Wien. The PhD position provides a highly interdisciplinary research field and includes conference participations, lab rotation and international exchange opportunities.

Please send your application including CV, a motivation letter, title and short summary of diploma/MSc thesis, list of publications (if available) and contact information of 2-3 referees until 26/09/2019 to birgit.hahn@tuwien.ac.at

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