



MAX-PLANCK INSTITUT FÜR
CHEMISCHE ENERGIEKONVERSION

Master or Bachelor Thesis catalysis | process intensification

Our group:

The Multiphase Catalysis Group in the department of Molecular Catalysis at the Max Planck Institute for Chemical Energy Conversion (MPI CEC) is currently looking for students interested in conducting research in the field of catalysis and reaction engineering. Bachelor and Master students as well as researchers are most welcome.

Our research is focused on green chemistry, catalysis and process intensification. We work at the interface between chemistry and engineering and therefore offer a very versatile work environment. Projects include the development of new reactions, design of suitable catalysts, and scale-up of processes into continuously operated miniplants.

Your thesis:

Synthesis gas produced from renewable resources with renewable energy is a focus in research and industry today in the shift to greener chemistry and a more sustainable future. This work in particular will deal with the conversion of synthesis gas to hydrocarbons, testing catalysts and catalyst recycling in multiphase systems, as well as the optimization of tandem catalytic systems.

What is waiting for you?

- Lab work with glass ware and steel reactors
- Working with high pressure reactions
- Working with a microwave reactor
- Various analytics (NMR, GC, HPLC, ICP, ...)

Requirements:

- Interest in homogeneous catalysis and multiphase catalysis
- Some level of English is appreciated due to an international work environment

If this description sounds like you and you are in for doing your thesis with us, do not hesitate to contact with a short description of your background and interests.

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