SUPER – Stuttgart University Program for Experiencing Research
Project Information

Institute’s Information
Name of Institute: Institute for Chemical Process Engineering
Contact Person: Andrej Grabowski
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Duration of Project/Number of Students
June/July
June/July/August: both possible
Number of Students: 1

Name of Project: Developing novel polymeric membranes

Beneficial Skills & Knowledge: Polymers and Plastics; Chemical Engineering; Polymer Chemistry or similar

Description of Work
Polymeric membranes are intensively used in separation processes (water treatment, live science, treatment of process solutions, etc.) and in energy storage and conversion – applications which help solving problems related to rapid growth of world’s population. For energy-efficient operation of membrane processes we are developing new membrane structures and processes for their manufacturing.

At Institute for Chemical Process Engineering we collaborate with other institutes and with industrial partners to effectively implement innovative technologies into products useful for people.

As a part of our development team you’ll be involved in experimental tasks of an on-going R&D project. The tasks dedicated to the development of new membranes include planning of experiments, manufacturing and characterization of membranes, data analysis, as well as reporting.