University of Stuttgart
Germany

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 Development of membrane apparatus for desalination

Beneficial Skills & Knowledge Chemical Engineering; Plastics Engineering; Polymer Chemistry; Physical Chemistry, or similar

Description of Work

Institute for Chemical Process Engineering develops novel concepts of membrane reactors for further realization in industrial products. We innovate using advanced materials and manufacturing techniques.
For energy-efficient removal of salt from water or other liquids we are developing new membrane device and corresponding processes for its manufacturing.
The tasks in this project will be:

- Material selection. Test chemical and thermal stability of membranes, sealant, etc.
- Preparation of module elements from selected materials.
- Assembling of the membrane device.
- Experimental evaluation of the prepared membrane device for desalination purpose.

For those who are willing to unleash creativity and act hands-on!
You're welcome to join our engineering team and actively participate in an exciting technology and product development.