




Master Thesis in Chemistry and Chemical Technology

Solvent based recycling of commodity polymers

We are seeking skilled and motivated young scientists willing to work on future proof topics dealing with sustainability and circular economy. You will be a part of a multi-disciplinary team and acquire first-hand information on your selected topic and beyond.

We are offering positions for students with finished BSc degree in the field of Chemistry, Polymer or Process Engineering for pursuing their diploma/master's thesis on a part-time basis (10 to 20h/week), limited to 12 months. The expected monthly salary is EUR 2.407,00 (on a basis of 40h/week).

You will work in the field of solvent-based chemical recycling of polymers. The goal will be to improve on established techniques and investigate new avenues for chemical recycling of commodity polymers. Challenges in the recycling process need to be addressed to increase cleaning efficiency and sustainability, not only in laboratory experiments but more so featuring a scale relevant for future applications to enable a circular economy.

For further details see next pages 



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CHASE your future

Your tasks: Investigate the solvent-based recycling in laboratory scale and scale-up scenarios using statistical experimental planning

- Explore alternative solvents to established processes with special attention to green solvents and/or solvent mixtures.
- Determine the impact of polymer type on the quality of solvent-based recycling processes.
- Study how to effectively remove discoloration from polymers in solvent-based recycling.
- Experiment on practical filler and polymer separation.
- Optimize solvent-based recycling.

Your expertise:

- Knowledge in characterization of polymers
- Experience in process engineering
- Skilled in Data Processing and Experimental Design
- Independence, intrinsic motivation and structured workflow
- Detail oriented and goal-oriented problem-solving skills
- Effective communicator proficient in English and German



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CHASE your career

We are committed to providing a framework for your professional growth:

- Engage in impactful research on sustainable technologies for a circular economy.
- Collaborate with industry leaders to gain hands-on, real-world experience.
- Receive a competitive salary for your contribution to the project and master thesis.
- Shape a sustainable future by proactively working on solvent-based recycling.



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