



PhD Thesis in Chemistry and Process Engineering

Chemical Recycling of Commodity Polymers

We are seeking a skilled and motivated young research scientist with a finished diploma/master's degree in the field of Chemistry, Polymer or Process Engineering for pursuing their PhD thesis on a part-time basis (30h/week), limited to 36 months, to strengthen our team at the headquarters in Linz with immediate entry.

CHASE is a European Research and Technology Organization for Chemical Systems Engineering with its headquarters in Austria. We enable companies in the chemical process industry to make their production more energy-efficient, more resource-saving and more sustainable.

In interdisciplinary and transdisciplinary partnership with renowned universities, successful companies and committed stakeholders, we support companies in the fields of chemistry, petrochemistry, gas, pharmaceuticals, plastic, food, sugar and pulp manufacturing to create products for our daily use in a more efficient and more eco-friendly way.

You will be working in the field of solvent supported recycling of polymers. The goal will be to improve existing methods and establish new techniques in terms of recycling polymers. The technological aspects of the cleaning process should be investigated and evaluated on laboratory scale but also focused more on processability on a relevant scale for future industrial applications.

The position provides the opportunity to pursue a PhD thesis. The monthly salary is EUR 3.750,00 (on a basis of 40h/week).

We are looking forward to hearing from you: personal@chasecenter.at

Reference number: 020

Application: until 31.08.2025

CHASE your future

You will contribute to the following tasks:

- Investigate solvent supported recycling in laboratory & technological scale purification techniques for commodity polymer types
- Explore techniques for particles and color removal
 - Evaluation of different polymer-solvent combinations and processing technologies on the removal efficiency
 - Combine the decontamination knowledge with cleaning studies for recyclates, virgin and model materials
- Evaluate post-processing methods

Your expertise:

- Experience in chemistry, chemical technology and process engineering
- You are skilled in data processing, evaluation and experimental design
- Knowledge in characterization of polymers
- Simulation and modeling skills are beneficial
- Independence, intrinsic motivation and structured workflow
- Solution- and Goal-oriented problem-solving skills
- Effective communicator proficient in English and German

CHASE your career

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

- Excellent working atmosphere with strong ties to and interactions with academia
- Flexible working hours and home office days
- Engage in impactful research on sustainable technologies for a circular economy
- Collaborate with industry leaders to gain hands-on, real-world experience
- Receive competitive salary for your contribution to the project and PhD thesis. The monthly salary is EUR 3.750,00 (on a basis of 40h/week). Previous professional experience relevant to the project will be taken into account.

For further information, please contact:

Gunnar Spiegel, Area Manager – Circular Process Streams
gunnar.spiegel@chasecenter.at

We look forward to receiving your application (cover letter, CV, academic certificates, employment references), including the reference number of the job posting, to the following email address: personal@chasecenter.at

By submitting your application documents, you expressly consent to the transmission of your application documents to the partners involved in CHASE.

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www.chasecenter.at

