



Master Thesis in Chemistry and Process Engineering

Recycling of Commodity Polymers

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

We are offering positions for students with a finished BSc degree in the field of Chemistry, Physics, Polymer- or Process Engineering for pursuing their diploma/master thesis on a part-time basis (10 to 20h/week), limited to 12 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.

This master thesis focuses on the field of recycling of polymers. The goal will be to improve existing methods and establish new techniques in terms of solvent-based recycling of polymers. The effectiveness of a cleaning procedure should be evaluated, starting with technological aspect in lab-scale, which can be transferred to a scaled-up setup with the focus on the processability on future industrial relevant scale applications.

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

Reference number: 019

Application: until 15.01.2026

CHASE your future

You will contribute to the following tasks:

- Investigate solvent-based recycling in laboratory scale and scale-up scenarios
- Determine the influence of different polymer-solvent blends on the removal efficiency
- Explore different techniques for the additive and color removal from polymers
- Perform studies on cleaning efficiency for recyclates and virgin materials
- Evaluate post-processing methods

Your expertise:

- Experience in chemistry, process-, or chemical engineering
- Knowledge in characterization of polymers, color measurement
- Benefit: first experience in data processing and experimental design
- Independent and structured workflow
- Detail oriented and goal-oriented problem-solving skills
- Eager to learn with an intrinsic motivation
- Effective communicator proficient in English and German

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
- Shape a sustainable future by advancing recycling methods.
- Receive competitive salary for your contribution to the project and master thesis. The expected monthly salary is EUR 2.407,00 (on a basis of 40h/week).

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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