

The **Research Center for Pharmaceutical Engineering (RCPE)** is a global leader in pharmaceutical engineering sciences. We help our partners to create and manufacture advanced medicines for patients around the world, through optimizing products and processes.



FOR OUR AREA 3  
WE ARE OFFERING A

# PAID DIPLOMA/ MASTER'S THESIS

REACTION CALORIMETRY IN CONTINUOUS FLOW  
REF. NO. DA159

To dedicated students of **chemistry, chemical engineering, pharmaceutical engineering** or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis. The project is conducted in close cooperation with the **Institute of Process and Particle Engineering** at TU Graz.

## OBJECTIVE:

For the optimization and scale-up of chemical processes, knowledge about thermal parameters is vital to design chemical reactors. Measuring these parameters, such as mixing or reaction enthalpy, demands specialized equipment. The goal of this project is to optimize the design of an already established calorimeter for reactions on continuous flow. This is done to broaden the scope of possible reactions that can be investigated with this device. The work touches upon the topics of sensor technology, Arduino microcontrollers and - electronics, as well as flow chemistry.

## WITHIN THE FRAMEWORK OF THIS DIPLOMA/ MASTER'S THESIS WE OFFER THE FOLLOWING:

- Extensive participation in a top-level and industrially relevant research project in an international environment with an international company
- Supervised training in the tasks at hand
- Assistance of experienced staff with the implementation of innovative ideas
- Access to highly modern infrastructure on campus of Graz University of Technology
- Adequate compensation and opportunities for personal and professional development

## FINANCING:

- Compensation on the basis of a service contract

IF YOU ARE INTERESTED IN WRITING YOUR THESIS AT THE INTERFACE BETWEEN UNIVERSITY RESEARCH AND INDUSTRY/ BUSINESS AND TO CONTRIBUTE TO THE OPTIMIZATION OF PRODUCT AND PROCESS DEVELOPMENT IN THE PHARMACEUTICAL INDUSTRY, PLEASE CONTACT US INDICATING THE REFERENCE NUMBER.

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