

## PAID DIPLOMA/ MASTER'S THESIS

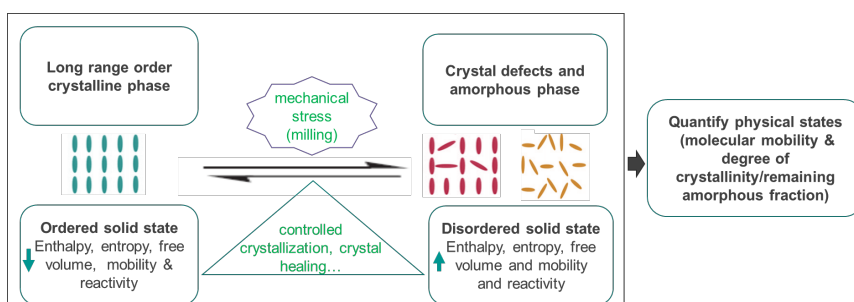
### Screening of Methods for Generation and Measurement of Solid-State Disorders

*Ref.Nr. DA122*

To dedicated students of Physical organic chemistry, pharmaceutical engineering, Pharmacy or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis. The project is conducted in close cooperation with pharmaceutical industry.

#### OBJECTIVE:

The aim of Diploma/Master thesis is to screen methods to generate wide-ranging & types of solid state disorders. Different methods, such as dry milling (by mechanical activation), controlled crystallization, time dependent crystal healing etc., will be evaluated as part of study. Resulted powder materials will be extensively characterized/ quantified for disorder and molecular mobility using advanced analytical techniques such as thermal (mDSC), X-ray (SWAXS) and SS-NMR relaxometry. In addition, particulate (PSD) and surface (BET) properties of the disordered materials will be determined simultaneously.



#### 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
- Supervised training in the task
- Assistance of experienced staff with the implementation of innovative ideas
- Access to highly modern infrastructure on campus of Graz University of Technology
- Assistance with the publication of results
- 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.

**Research Center Pharmaceutical Engineering GmbH**

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