

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.



WE ARE OFFERING A

PAID DIPLOMA/ MASTER'S THESIS

INSIGHTS OF ENTERIC COATING: PROCESS AND
FORMULATION ON A DELAYED RELEASE DOSAGE
FORM PROTOTYPE
REF. NO. DA145

To dedicated students of chemical engineering, chemistry, pharmacy or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis. The project is conducted in close cooperation with Graz University of Technology.

OBJECTIVE:

Enteric coating may be used to protect acid-labile drugs or to avoid gastric distress induced by high concentrations of some drugs, such as aspirin. When a dosage form design includes an enteric coat, the dissolution test will include two stages to evaluate the performance of the coating: an acid stage of pH 1 to demonstrate the integrity of the enteric coat and a drug release phase at a higher pH USP <711>. The general objective of this thesis is to evaluate different enteric coating existing on the market and their performance in the above mentioned test. The assignment will include the following tasks: i) Experimental determination of critical process parameters within an enteric coating process. ii) Evaluation of coating formulations on the final dissolution outcome. iii) Contrast the different enteric coatings in terms of process and formulation robustness.

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.

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