

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 optimising products and processes.



FOR OUR TEAM/AREA 3
WE ARE OFFERING A

PAID DIPLOMA/ MASTER'S THESIS

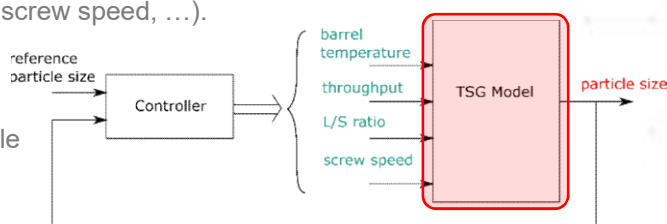
DYNAMIC PROCESS MODEL FOR TWIN SCREW
GRANULATION
REF. NO. DA 139

To dedicated students of electrical engineering, biomedical engineering, information and computer engineering, mechanical engineering, physics, chemical and process engineering, or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis. The project is conducted in close co-operation with the institute of automation and control, TU Graz.

OBJECTIVE:

Twin screw wet granulation (TSWG) is a processing step used to produce granules from powders by addition of a granulation liquid and introduction of mechanical energy. The size of the granules depends on the process conditions (e.g., liquid to solid (L/S) ratio, screw speed, ...).

For the implementation of a model based control strategy, a model that captures the dynamics of the TSWG is needed. The development of this process model will be the topic of the Master's thesis. A suitable modelling approach needs to be selected and the parameters of the model need to be identified from experimental data.



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 OPTIMISATION OF PRODUCT AND PROCESS DEVELOPMENT IN THE PHARMACEUTICAL INDUSTRY, PLEASE CONTACT US INDICATING THE REFERENCE NUMBER.

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