

## PAID DIPLOMA/ MASTER'S THESIS

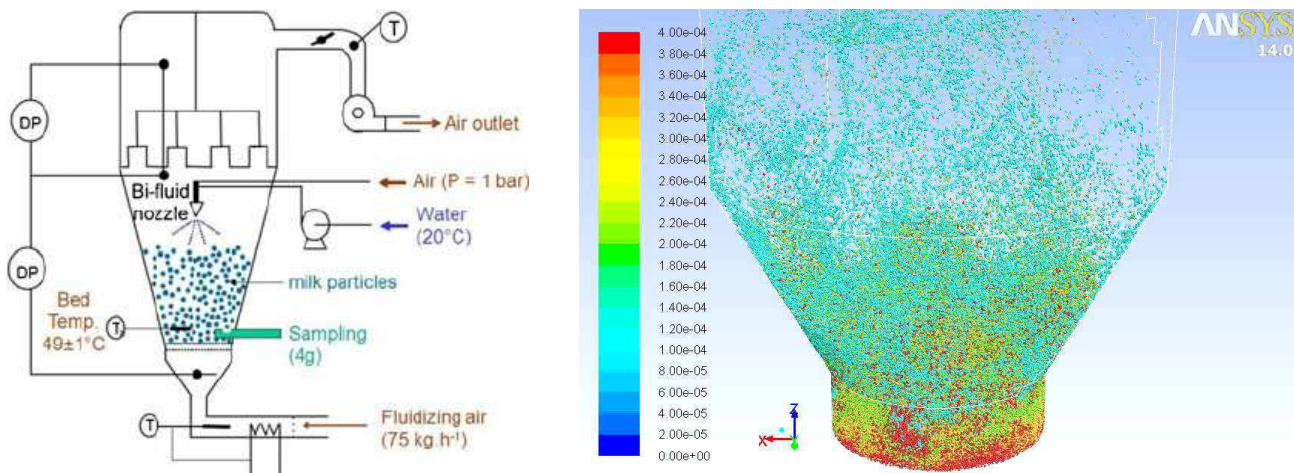
### *Development of a Pharmaceutical Fluidized Bed Granulator*

*Ref.Nr. DA 86*

To dedicated students of Chemical and Process Engineering, Chemical and Pharmaceutical Engineering, Mechanical Engineering, Technical Physics, Chemistry, or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis.

#### OBJECTIVE:

Granulation is an important operation step in the pharmaceutical manufacturing. Fluidized beds are considered to be an excellent technology to realize a continuous pharmaceutical granulation process unit and are already implemented in industrial scale plants. In the scope of this master thesis the development of an alternative design of a laboratory granulator will be investigated, based on already promising CFD/DEM (computational fluid dynamics, discrete element method) simulations. A motivated, multidisciplinary, international team from the RCPE and the Institute of Process and Particle Engineering will assist during the design process and trial runs of the perspex laboratory granulator.



#### WITHIN THE FRAMEWORK OF THIS 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

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