

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.



A PhD position is available in the context of a project in the field of pharmaceutical manufacturing, in a collaboration between our institution and a pharmaceutical industry partner. properties.

**PHD STUDENT (M/F)**  
**CONTROL OF PROTEIN AGGREGATION IN  
PROCESSING AND MANUFACTURING OF  
BIO-PHARMACEUTICALS**  
**REF.NR. SK66**

**DUTIES AND RESPONSIBILITIES:**

The student will conduct cutting edge research towards improved understanding and control of protein aggregation during manufacturing of bio-pharmaceutical products. The proposed work includes, both, experimental and theoretical approaches, with the final goal of establishing a semi-empirical model to predict and control protein aggregation as a function of process parameters and the protein's physico-chemical properties.

**REQUIREMENTS:**

- Master degree in bio-technology, chemical engineering, biophysics, pharmaceutical science, or a comparable/related field.
- Good grasp of protein stability, and experience with some of the related analytical and characterization techniques, such as isothermal calorimetry, DSC, analytical ultracentrifugation, SEC, CD, asymmetrical field flow fractionation, light obscuration, dynamic light scattering, etc.
- Interest in, and experience with, mathematical modeling tools (e.g. Origin, MATLAB, etc.), and/or scientific programming (e.g. Python, C, C++, etc.) is a plus.
- Interest in, and experience with industrial process development and implementation is a plus.
- Ability to work independently and as a member of an international research team.
- Excellent English proficiency, spoken and written.

**WE OFFER:**

- A multidisciplinary and dynamic research environment and access to modern infrastructure at the Graz University of Technology campus.
- Options for career development at the academic and industrial level.
- A competitive salary (min. € 2.500,- gross/month).

WE ARE LOOKING FORWARD TO RECEIVING YOUR APPLICATION BY INDICATING THE REF. NO. AND INCLUDING A COVER LETTER, YOUR CV, PUBLICATION TRACK RECORD AND CREDENTIALS!

**Contact:**

**Research Center Pharmaceutical Engineering GmbH**  
Inffeldgasse 13, A-8010 Graz  
Sandra Sünkel  
Head of Human Resources  
email: [sandra.suenkel@rcpe.at](mailto:sandra.suenkel@rcpe.at) - Tel.: +43 316 873 30904

LEADING PHARMA INNOVATION

[rcpe.at](http://rcpe.at)