

The Research Center Pharmaceutical Engineering GmbH (RCPE) is a global leader in pharmaceutical engineering sciences. We help our partners create and manufacture advanced medicines for patients worldwide through optimizing products and processes.

For our team / Area 1 "Science of Quality"  
we are looking for an active, highly qualified (m/f/x)

# **(SENIOR / PRINCIPAL) SCIENTIST**

## **PhD possible**

### **Computational Fluid Mechanics**

Ref.No SK 122

#### **Duties and responsibilities**

- Develop and apply Eulerian and Lagrangian CFD methods on different length scales to simulate pharmaceutical manufacturing processes. These include:
  - Developing competence in fluid mechanics in a pharmaceutical context
  - Coupling of CFD methods to DEM powder modeling and molecular dynamics methods
  - Focus on pharmaceutical processes like hot-melt extrusion, spray drying, manufacturing of nano-particles, mixing of multiphase fluids
  - Develop and apply coarse-grained models for molecular dynamics
  - Leading of the inhouse CFD group
  - Setting up models for multiphase computational fluid dynamics simulations
  - Performing and analyzing multiphase computational fluid dynamics simulations
  - Actively participating in project teams and scientific networks
  - Writing project reports and publish research in reputed journals
  - Presenting results at internal meetings at international conferences

#### **Requirements**

- A technical or natural scientific MS degree and interest in pursuing a PhD degree
- Interest in performing research at the interface of basic science and industrial application
- Professional conduct and communication skills in dealing with international partners and colleagues

#### **We offer**

- A multidisciplinary and dynamic research environment and access to highly modern infrastructure on campus of Graz University of Technology
- Opportunities for career development at the academic and industrial level
- A competitive salary (Scientist interested in pursuing a PhD degree: min. € 42.000,- gross/year, Senior/Principal Scientist: min. € 56.000,- gross/year - overpayment - depending on qualification - possible).
- Possibility to work part-time

At RCPE, we strongly emphasize promoting diversity and inclusion. We are also committed to encouraging women to explore opportunities within our technical environment. We actively encourage applications from women and give preference to candidates with equivalent qualifications while considering all relevant aspects and circumstances of all applications.

**We are looking forward to receiving your application, indicating the ref. no., and including a cover letter, your CV, publication record and credentials.**

#### **Contact**

<https://careers.rcpe.at/>

