

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

SENIOR SCIENTIST

Computational Fluid Mechanics

Ref.No SK 132

Duties and responsibilities

- Good knowledge of model development, testing, and implementation
- Experience with CFD software (OpenFOAM, Ansys Fluent, AVL Fire)
- Experience with CFD-DEM coupling methods
- 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, lyophilization
 - Develop and apply coarse-grained models for molecular dynamics
 - Setting up models for multiphase computational fluid dynamics simulations
 - Performing and analyzing multiphase computational fluid dynamics simulations
- Leading the in-house CFD group
- Identifying and seizing relevant business opportunities
- Actively participating in project teams and scientific networks
- Writing project reports and publishing research in reputed journals
- Presenting results at internal meetings and international conferences

Requirements

- A technical or natural scientific 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
- The annual gross salary for this position is EUR 61.600 to EUR 65.800, depending on relevant professional experience.
- 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, including a cover letter, your CV, publication record and credentials.

Contact

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

