

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 Modeling and Prediction
we are looking for an active, highly qualified (m/f/x)

(SENIOR / PRINCIPAL) SCIENTIST

PhD possible

Computational Fluid Mechanics and Molecular Dynamics

Ref.No SK 102

Duties and responsibilities

- Develop and apply methods simulate nanoparticle self-assembly on different length scales using methods that take into account the constituents of the nanoparticle as well as the fluid mechanics of the production process, including:
 - Developing competence in fluid mechanics and molecular dynamics
 - Learning numerical methods and computational fluid dynamics
 - Performing molecular dynamics simulations
 - Developing and apply coarse-grained models for molecular dynamics
 - Setting up models for multiphase computational fluid dynamics simulations
 - Performing and analyze 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 (min. € 39.900,- gross/year, overpayment - depending on qualification - possible).
- Possibility to work part-time

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

Contact

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