

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 Science of Quality
we are looking for an active, highly qualified (m/f/x)

SCIENTIST

Computational Fluid Mechanics and Reduced-Order Modeling

PhD possible

Ref.No SK113

Duties and responsibilities

- Develop and apply methods simulate filtration processes for protein fractionation that take into account the fluid mechanics of the process including the filter cake:
 - Developing competence in fluid mechanics
 - Learning numerical methods and computational fluid dynamics (CFD)
 - Learning to develop user-defined submodel for CFD simulations
 - Setting up models for multiphase CFD simulations
 - Performing and analyze multiphase CFD simulations
 - Developing reduced-order models based on CFD simulation results
 - 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 partners and colleagues

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 clients, partners and colleagues
- Interest and experience in performing top-level and target-oriented research at the interface of basic science and industrial application

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. € 42.000,- gross/year, overpayment - depending on qualification - possible).
- Possibility to work part-time

At RCPE, we place a strong emphasis on 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, when candidates possess equivalent qualifications, we give preference while considering all relevant aspects and circumstances of all applications.

We do not accept applications via personnel service providers or recruitment agencies and ask all interested candidates, to submit their documents directly via our job page. Applications via recruitment agencies will not be processed.

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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