

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

## Software Engineer C++/CUDA/Python

Particle Simulation Software (DEM, SPH, couplings between solvers)

Ref.No SK105

### Duties and responsibilities

- Work on our particle simulation software (written in C++/CUDA, Python)
- Continuous improvement of code, automated testing schemes, build system, and implementation of new features
- Testing and documentation, code reviews
- Possible topics: Discrete Element Method (DEM), Smoothed Particle Hydraulics (SPH), couplings to SPH or other CFD solvers)

### Requirements

- Good knowledge of C++
- Experience with Linux operating systems
- Experience with data processing, for example with Python
- Experience with version control systems (we use Git/GitLab)
- Nice to have: experience with testing strategies and environments
- Nice to have: experience with administrating GitLab and continuous integration environments
- Nice to have: experience with CUDA, Cmake, scripting languages
- Nice to have: experience with high-performance computing strategies

### 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. € 35.000,- 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

Sandra Sünkel, Head of Human Resources  
Inffeldgasse 13 / 8010 Graz, Austria  
+43 316 873 30904, sandra.suenkel@rcpe.at

