

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

# SCIENTIST PhD

## HME Process and Simulation Development

Ref.No SK111

### Duties and responsibilities

- Work as part of a multidisciplinary team that works on developing a digital-twin for pharmaceutical Hot Melt Extrusion (HME)
- Plan, run and evaluate HME experiments in order to generate validation data
- Develop a database of HME excipients and extruders needed for process simulations and process scale-up
- Introduce new physical phenomena as part of our *in-house* Smoothed Particle Hydrodynamics (SPH) and 1D HME simulation codes
- Work on hands and industrially relevant research

### Requirements

- A technical or natural scientific MS degree (Process Engineering, Chemical Engineering, Mechanical Engineering, Pharmaceutical Engineering, Physics or similar)
- Knowledge in HME, SPH as well as basic knowledge in programming languages (Python, C++, MATLAB) as an advantage
- 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. € 41.300,- 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 are looking forward to receiving your application, indicating the ref. no., and including a cover letter, your CV and a publication record.**

### Contact

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