

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 III – Next-Generation Manufacturing  
we are looking for an active, highly qualified (m/f/x)

## **(SENIOR / PRINCIPAL) SCIENTIST**

**Pharmaceutical Material Science**

Ref.No SK107

### **Duties and responsibilities**

- Develop and apply mechanistic and effective methodologies for advanced pharmaceutical product profiling, including:
  - Robust understanding on solid-state of lipids, polymorphism, crystal growth, phase transitions in multiphasic systems, liquid crystals.
  - Robust understanding of pharmaceutical processes with focus on spray-drying, melt-extrusion, hot melt coating, 3D-printing.
  - Robust understanding of pre-formulation/formulation and biopharmaceutics characteristics critically impacting drug release and absorption with emphasize on lipid-based (pre-)formulations.
  - Development/optimization of solubility enhancing methodologies.
  - Implementation of diverse manufacturing technologies (e.g. spray drying, melt extrusion and 3D-printing) for processing of challenging materials with focus on lipids for oral and inhalation application.
  - Implementation of risk assessment approaches to support decision making processes during formulation/process development
- Develop new scientific ideas, methods and technologies in the field of lipid-based formulation development.
- Scientific lead of projects, support scientific output, supervision of PhD students and diploma/master thesis.
- Actively participate in project teams/ meetings/ scientific networks.
- Produce project reports, publish research results in reputed journals, advanced presentation skills for active contribution in congresses.

### **Requirements**

- A technical or natural scientific MS degree and PhD and 2 – 5 years research experience in a field related to the tasks described above.
- Strong knowledge on pharmaceutical processes, and product development as mentioned above.
- Strong knowledge on solid-state behavior of lipids.
- 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. € 53.200,- 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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