

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 3  
we are looking for an active, highly qualified (m/f/x)

## **SCIENTIST (with possibility to do a PhD)**

**EU Project PharmEco: Advancing Safe and Sustainable by Design Practices in Pharmaceutical Manufacturing**

Ref.No SK120

### **Duties and responsibilities**

Perform cutting-edge research focused on engineering-driven optimization of conventional operating strategies present in biological processes within the pharmaceutical industry. These activities are part of an EU collaboration with several industrial and academic partners.

The project tasks will involve:

- Modeling of individual unit operations (e.g fermentation, purification,...) using data-driven and hybrid modeling algorithms
- Design of (model-based) control algorithms
- Integration of model and control algorithms into a digital twin structure
- The algorithms will be designed in a simulation environment and then transferred to the real system

### **Requirements**

- An MS degree (or close to end) in an engineering field (electrical engineering, biomedical engineering, mechanical engineering, computer science, chemical or pharmaceutical engineering, biorefinery engineering, mathematics or related fields)
- Knowledge (or strong interest/willingness to learn) in MATLAB/Simulink as well as in Python or similar tools Knowledge (or strong interest/ willingness to learn) in control-engineering topics 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
- Readiness to write a PhD thesis, publish in peer-reviewed journals, and participate in international conferences

### **We offer**

- A multidisciplinary and dynamic research environment and access to highly modern infrastructure on the campus of Graz University of Technology
- The best of both worlds: Research and scientific support from academia combined with industrial problem statements and perspectives
- The possibility to address challenges and propose solutions that can transform the current industrial landscape
- 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

### **Contact**

<https://careers.rcpe.at/>



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.

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 including your CV, a cover letter, your publication record and credentials.**

**Contact**

<https://careers.rcpe.at/>

