The Polymer Competence Center Leoben GmbH (PCCL) is the leading Austrian center for cooperative research in the field of polymer technology and polymer science. In collaboration with companies in the polymer industry and numerous academic institutions, our around 100 highly-qualified employees jointly work in R&D projects on innovative polymer solutions for a wide range of applications, including the whole rubber composite process chain from the materials design, over processing to material characterization. We currently aim to strengthen our team and offer a

Researcher Position in the Field of Numerical Modeling of Permeation Processes (JOB ID 20220406)

Tasks

- Research, development and implementation of permeation models in Python (FEniCS)
- Investigation, screening, and selection of existing permeation models for polymers
- Further development of models to predict the impact of fillers on permeation properties of polymers
- Verification of numerical simulations and modeling with provided experimental data
- Close cooperation with project partners from industry and research and regular presentation of results
- Communication of research results to the scientific community (e.g. journal papers, conference proceedings)

Required skills

- Above average master's degree in one of the fields of physics, material science, polymer engineering, or mathematics
- Programming skills (e.g.: Python, Matlab, Fortran, C, C++…)
- Mathematical skills for model development and regression theory
- Initiative, reliability, sense of responsibility, teamwork and communication skills, and the ability to liaise with partner companies and other researchers
- Good language skills in English and German
- Previous experience with permeation and FE-simulations is an advantage

We offer

- Collaboration in a highly-motivated multi-disciplinary team with excellent contacts to industry as well as to national and international research organizations
- Gross income € 3,134 (for a classification as a PhD candidate; full-time employment, 14 times a year)
- Flexible working conditions
- Possibility to conduct a PhD thesis
- Start of employment – June 2022

Contact

Please send your application (motivation letter, CV) along with copies of your certificates and diplomas to jobs@pccl.at, indicating the Job-ID 20220406. If you have any technical questions regarding the job advertisement, please contact *DI Dr.mont. Johannes Macher*
jobs@pccl.at