

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. By linking scientific knowledge to the industrial need for innovation PCCL contributes to the competitiveness of its industrial partners who cooperate on the basis of medium- and long-term R&D-projects with the PCCL. We currently aim to strengthen our team and offer a

Researcher position in the field of „Simulation approaches to achieve a reliable prediction of the permeation of hydrogen gases through polymer composites” (JobID: 20190714b)

Project description:

This project deals with (i) new characterization methods to detect permeation of hydrogen and other gases through polymers, and (ii) numerical approaches such as computational fluid dynamics (CFD) involving advanced material models for permeation processes. In particular, the link between experimental approaches (i.e., highly sensitive detection methods) and the numerical description of the transport of gases through different polymeric materials is the overall aim of this project.

Your Profile:

- ✓ Completed degree (Mag., Dipl.-Ing. or MSc.) in the field of experimental physics or mathematics
- ✓ Profound knowledge in material sciences, esp. physics and chemistry of polymeric materials
- ✓ Experienced in material testing
- ✓ Advanced knowledge in Finite Element Method and CFD
- ✓ Personal initiative, reliable, responsibility, teamwork and communication skills with the ability to interface with partner companies and other researchers
- ✓ Communication of research results to the scientific community (e.g. journal papers, conference proceedings)

We offer:

- ✓ Advanced research in a multi-disciplinary team
- ✓ Excellent contacts to industry as well as to national and international research organizations
- ✓ Gross monthly income app. € 3.023.- (14 times per year)
- ✓ Flexible working conditions, 40 h per week
- ✓ Possibility to perform a PhD thesis

Application:

Please send your application until **30th of September** along with copies of your certificates and diplomas to jobs@pccl.at, indicating the **JobID 20190714b**. The following information has to be attached, preferable as one PDF file:

- ✓ **Letter of motivation** for the position(s) of interest
- ✓ **CV** (up to 2 pages), if possible with a list of publications and/or projects,
- ✓ **Scan of the diploma** or degree that qualifies the applicant for PhD enrolment
- ✓ **Scan of further certificates or work experience**