

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 / PhD position:
„Development of functional polymers for sensing and automotive applications” (Job-ID: 20190213)

Tasks

- Development of functional polymer composites, targeted for sensing and automotive applications
- Definition and development of material concepts for safety-critical applications including high-temperature stable polymer resins and thermally activated additives
- Screening, selection and formulation of high-temperature stable polymer resins
- Screening and selection of compatible thermally activated additives
- Characterization of selected additives by means of DSC, TGA and spectroscopic analysis techniques
- Development of compounds and/or coatings comprising of the selected polymers and additives
 - Investigation and characterization of the resulting material properties (electrical properties, temperature stability)
 - Characterization of thermo-mechanical properties and long-term stability/reliability of the developed materials
 - Characterization of the performance of the developed functional compounds
- Validation of the developed material systems in close cooperation with the project partners on a test setup developed within the project
- Close cooperation with project partners from industry and research and regular presentation of results
- Communication of research results to the scientific community (e.g. papers in peer-reviewed journals, talks at national and international conferences)

Required skills

- Above average master's degree in polymer chemistry, organic chemistry, polymer engineering and science, materials science or similar
- Profound knowledge in polymer chemistry
- Structured and independent way of working
- Personal initiative, skills for self-organization and teamwork, effective communication skills with the ability to communicate with partner companies and research organizations
- Language skills in English and at least basic skills in German advantageous

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 € 2.929,- (for a classification as a PhD candidate; full-time employment, 14 times a year)
- Flexible working conditions
- Possibility to perform a PhD thesis
- Start of employment – March 2019

Contact:

Please send your application (motivation letter, CV) along with copies of your certificates and diplomas to jobs@pccl.at, indicating the Job-ID 20190213. If you have any technical questions regarding the job advertisement, please contact DI Dr. Archim Wolfberger (archim.wolfberger@pccl.at).