

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

“Tribochemical evaluation and performance characterization of functional wear resistant coatings“

(JOB ID 20210224A)

Tasks

- Development of novel multi-layered wear-resistant coatings in close cooperation with other research institutes
- Evaluation of the tribological performance on polymeric substrates and influence of ambient conditions (moisture, temperature, etc.)
- Investigation surface and bulk properties of deposited coatings
- Spectroscopic characterization (XPS, FT-IR, etc.) of surfaces before and after wear
- Investigation of hardness, mechanical properties, adhesion of coatings and impact of the deposition parameters on substrate properties
- Research on chemical modification of solid lubricants
- Investigation of hybrid lubrication and liquid lubricants on wear resistant coatings
- Prototype manufacturing and pre/post treatment of substrates and coatings
- Regular reporting and close interaction with several industrial partners
- Communication of results in meetings and at scientific conferences

Required skills

- Above average master's degree in chemistry, polymer chemistry, polymer engineering and science, materials science or similar fields
- Profound knowledge in polymer engineering and science
- Experience with tribological test methods and tribochemistry preferred
- Structured and independent way of working and good organizational skills
- Strong personal initiative and independent way of working
- Self-organization skills and ability to work in a multi-disciplinary team
- Effective communication skills with the ability to communicate with multiple partner companies and research organizations
- Good language skills in English (written and spoken) and at least basic skills in German are 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 € 3.072,- (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 – Immediate

Contact

Please send your application (motivation letter, CV) along with copies of your certificates and diplomas to jobs@pccl.at, indicating the Job-ID 20210224A.