

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 carbon fiber-reinforced composites. We currently aim to strengthen our team and offer a

### Researcher position in the field of Simulation and Modelling (Job-ID 20190110)

#### Tasks:

- Research, development and implementation of curing models in LS-Dyna or Abaqus
- Further development of an automated FE-model build up for microelectronic structures
- Modelling of the constitutive behavior of polymeric materials
- Mechanical, thermal and thermo-mechanical characterization of reinforced and unreinforced polymers
- Investigation of existing viscoelastic material models in commercial software tools
- Development and implementation of linear/nonlinear material models in LS-Dyna or Abaqus, execution of simulations

#### Required skills:

- Above average master's degree in one of the fields of material science, polymer engineering, mechanical engineering, physics or mathematics
- Profound knowledge in FE-simulation
- Profound programming skills (e.g.: Matlab, Python, Fortran, C, C++...)
- Practice with FE-software (e.g.: LS-Dyna or Abaqus) and knowledge in continuum mechanics is desirable
- Experience in using testing machines (MTS, Zwick) and basic knowledge in polymeric and composite materials are advantageous
- Personal initiative, skills for self-organization and teamwork, effective communication skills with the ability to interface with partner companies and other researchers

#### 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 hours
- Possibility to perform a PhD thesis

#### Contact:

Please send your application (motivation letter, CV) along with copies of your certificates and diplomas to [jobs@pccl.at](mailto:jobs@pccl.at), indicating the JobID 20190110

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