



University of Applied Sciences Northwestern Switzerland
School of Engineering



The University of Applied Sciences and Arts Northwestern Switzerland includes nine schools with more than 12'000 students. We are looking for you to join the School of Engineering, Institute of Polymer Engineering (IKT), in Windisch, Switzerland, at the earliest possible date:

Research Associate as a PhD candidate in the field of processing of composites / simulation

Your tasks: Your main task is to lead and actively contribute to a research project in the field of processing of thermoplastic composite structures. This project addresses the topic of melt consolidation of thermoplastic hybrid yarn materials ("ConThP"), consisting of high performance thermoplastic matrix fibres and reinforcing carbon fibres. The ConThP project is about the implementation of a consolidation approach into finite element analysis, which enables the use of hybrid yarn materials in conjunction to complex tooling to enable integral design concepts with a high structural performance. The project partners are the TU Delft and the Faserinstitut Bremen e. V.; it is foreseen to have an intensive exchange with these partners. Therefore, traveling will be required for several research stays.

The project is carried out in collaboration with EPFL, Laboratory for Processing of Advanced Composites, Prof V. Michaud. The candidate should then also fulfill the conditions for admission at the EPFL doctoral school. For more details, please visit phd.epfl.ch/EDMX, or phd.epfl.ch/EDAM.

For further information on the activities of IKT please visit www.fhnw.ch/en/about-fhnw/schools/school-of-engineering/institutes/institute-of-polymer-engineering.

Your profile: You have a degree (MSc) in mechanical engineering / material sciences / production engineering from a top university and a strong flair for numerical methods as well as practical experience in the field of composite processing. Furthermore, you should be familiar with material characterization (mechanical and thermal analysis) for composite materials. Despite your independent working method, you are able to work effectively in a team and you are interested in understanding physical problems in detail. Furthermore, you can communicate fluently in German (working language) and English (project-related communication and thesis writing). Finally yet importantly, you are creative, open-minded and highly motivated to face the challenges that arise in a scientifically exciting and application-oriented environment.

Please send your application with a motivation letter, CV and transcript of grades from the Bachelor and Master's degrees until March 15, 2019 online via the respective announcement on www.fhnw.ch/offene-stellen to Alberto Tagliatti, HR manager. For further information please contact Prof. Dr. Christian Brauner, team leader structural mechanics, T +41 56 202 74 75. Email: christian.brauner@fhnw.ch

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