Post-doctoral position on advanced chemical post-treatment of recycled glass fibers

A two-year post-doctoral position is available at the Laboratory for Processing of Advanced Composites (LPAC, Institute of Materials, EPFL), a world leading laboratory in the science of composite and multilayer materials.

The position is open in the frame of a collaborative project with a Swiss company to develop the post-treatment of recycled glass fibers, towards their reuse in composite materials applications. In this project, adapted fiber post-treatment after pyrolysis will be developed to optimize cost/performance, and improve their market value towards the production of recycled fiber composites.

The ideal candidate should have a strong background in Materials Science or related field, with a strong knowledge in sizing chemistry, surface and interface property analysis and composite materials processing as well as mechanical testing, and an interest in sustainability and recycling. The work will include the development of novel cleaning, surface activation and sizing processes, for application towards composite production with several polymer matrices. Lab-scale fiber and interface testing will be carried out, as well as composite processing and testing to evaluate the most adapted solutions, in collaboration with industrial partners.

Fluency in English is required, knowledge of French is a plus, since the work will be carried out at LPAC-EPFL with research visits and tests at the company site and at its partners sites. We offer an excellent work environment within a laboratory dedicated to advanced composite processing and sustainability, an industrial collaboration, and the possibility to supervise student projects.

The application should include a CV and motivation letter, as well as the name of 3 references, and should be sent to Veronique Michaud, head of LPAC (veronique.michaud@epfl.ch).