

## Postdoctoral position on multilayer thin film devices

A one-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 surfaces and interfaces, diffusion barrier materials and mechanics of thin films.

The objective is to analyze the mechanical integrity of Parylene-based hybrid multilayer materials, in close collaboration with the EPFL Laboratory for Soft Bioelectronic Interfaces (LSBI) and the company Comelec. These materials exhibit excellent diffusion barrier properties for the encapsulation of devices in microelectronics and biomedical fields. Further improvements require to investigate the interplay between multilayer composition, process cycles, residual stresses, cohesive and adhesive properties, and gas permeation.

The candidate must possess a solid background in materials science, with a good knowledge of thin film mechanics. He or she will integrate a team of specialists in thin film devices processing and characterization and will be responsible for:

- the experimental characterization of the multilayer structures and their mechanical and diffusion barrier properties using state of the art methods;
- the optimization of the multilayer structure in view of their application to soft bioelectronic devices.

Mastering of the English language is required. Applications including a CV, a motivation letter and the names and contact details of three reference persons should be directed to:

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