

Postdoctoral fellow in Material Science at CEA

Context & Job description

The CEA and the SOITEC company are carrying research on the SmartCut™ technology¹ including basic research². This research concerns the physics of adhesion (with issues like properties of confined fluids) and of fracture, including dynamical aspects. We perform optical (IR and visible) and X-ray experiments to probe both the structure and the dynamics of interfaces.

The candidate will participate in these experiments, use clean room equipments and characterization tools, build new experiments , perform data treatment and interpretation, working with and reporting to our partners CEA-LETI³ and SOITEC . He/she will be involved also in X-ray experiments at ESRF (e.g. interface studies at BM32) when available.

Expected profile:

- PhD in physics, engineering or materials sciences.
- Experience in optics , X-ray diffraction
- Interest in instrumental hardware development
- Experience in data treatment
- Basic knowledge in materials mechanics, elasticity

Asset

- Ability to interact with multi-disciplinary staff
- Good time management skills and ability to prioritize
- Proficiency in English/French

The position is at CEA, for 2 years, starting April 2021.

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¹ https://www.soitec.com/en/products/smart-cut?__geom=☺

² <https://www.mem-lab.fr/en/Pages/NRS/Highlights.aspx>

³ <https://www.leti-cea.fr/cea-tech/leti>