

Phd Student

The *Laboratoire d'Étude des Microstructures et de Mécanique des Matériaux*, LEM3, located in Metz (France) is a center for transdisciplinary experimental and theoretical research combining mechanics of solids and metallurgy, materials science, chemistry, and physics. By maintaining the balance between basic and applied approaches, it ensures a strong visibility of its cutting-edge research and an effective knowledge transfer to industrial partners. The *Ingénierie des Microstructures, Procédés, Anisotropie, Comportement*, IMPACT department studies microstructures (with their 3D topology) and crystallographic textures (at micro- and macro-scales) of polycrystalline materials, with focus on changes induced by phase transitions during thermal, mechanical and/or physical processing, to better understand how the changes alter macroscopic behavior of materials, especially their anisotropy.

To support our research, we are looking for a

PhD Student

Experimental and mesoscopic approach for understanding the fundamental deformation mechanisms of materials

Start date: **Monday, October 1st 2018**

Your tasks

- You will perform detailed analyses of deformation microstructures.
- You will perform cutting-edge techniques for characterizing defects, especially by electron microscopy.
- Your results will be discussed in the framework of materials plasticity.
- You will interact with researchers from several countries.
- You will publish your work in international scientific journals.

Your profile

- You must have a Master degree in Materials Physics, **passed with high honors.**
- You must have good knowledge of crystallography, deformation physics and plasticity of materials.
- You have good written and verbal communication skills, and enjoy working in an international team.
- Good English language skills are required.

You will be registered as PhD Student at the *Université de Lorraine*.

Further information and application

For further information and application **resume including addresses of referees and your exam scores (bachelor and master)**, please contact:

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