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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Julie Marteau
Supervisor page	https://www.researchgate.net/profile/Julie-Marteau
Host Institution	Université de Technologie Compiègne (UTC) https://www.utc.fr/en/
Research Lab	Laboratoire Roberval https://roberval.utc.fr/
Research Team	Équipe Matériaux et surfaces https://roberval.utc.fr/recherche/equipes-de-recherche/equipe-materiaux-et-surfaces/

Project Title

Influence of surface morphology and microstructure of metallic materials on their mechanical behaviour

Project Description

Local indentation can help the understanding of the mechanical behavior of metallic materials. However, the morphology of the surface can have non negligible impact on the results. Models need to be built to better decorelate microstructure influence from morphology on the results. Experiments using SEM, EBSD, confocal microscopy and nanoindentation tests will also be performed.

Keywords

Microstructure, indentation, mechanical properties

Description of the Host Lab

The mission of the Laboratoire Roberval is to develop innovative experimental and numerical methods for the analysis, modeling and design of mechanical structures and systems.

To submit your application, please send an email with the required documents to
mcsa-pf@sorbonne-universite.fr