

## ***Recrutement d'un Post-doctorant / Post-doc recruitment***

**Project : SENSible**

**Placement/Employer:** Laboratoire de Tribologie et de Dynamique des Systèmes, CNRS UMR5513, Ecole Centrale de Lyon, Ecully, France.

**Project Leader and Contact person :** Mark Rutland,  
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The project unites several disciplines with the goal of producing testing equipment for tactile perception acuity. It will employ state-of-the art laser texturing to produce patterned surfaces that will be evaluated by surface characterisation approaches, bio-tribology and, in collaboration with partners at ENISE and RISE (Sweden), psychophysical and human-materials interaction. The research will lead to an improved understanding of the mechanisms of human tactile perception, but also to a prototype, with a view to commercialisation, for clinical testing.

*Les installations du GIE Manutech USD seront ainsi utilisées pour texturer des surfaces métalliques de manière facile et reproductible. Les caractéristiques topographiques seront systématiquement affinées en utilisant des approches psychotribologiques et sensorielles pour produire un démonstrateur qui pourrait être testé dans un cadre clinique, et comme un standard haptique.*

*Le projet couple la biotribologie (LTDS), les interactions matières-humaines (LGF-Mines de Saint-Etienne), et la structure au laser (Manutech-USD) à la psychotribologie (LTDS). En plus du prototype, les matériaux fonctionneront également pour révéler information de perception.*

**Commencement:** late 2022

**Extent :** 18 months

### **Profile**

The successful applicant will hold a PhD (or will have completed a PhD by December 2022) in one of the following areas : Tribology, Materials Science, Contact Mechanics, Surface Science or similar. Psychology/Psychophysics may also be considered if the candidate can demonstrate a facility with physical experimental techniques. Fluency in English is a requirement, and ideally also French.

For more information or to apply, please contact Mark Rutland, [mark@kth.se](mailto:mark@kth.se) with « SENSIBLE » as the subject line.

Applications will be evaluated continuously, last date for acceptance of applications is July 25.