

## Post-doctoral position

### Ultrafast THz spintronics

**Starting date:** 01.04.2021

**Duration:** 18 months

**Research team:**

Institut de Physique et Chimie des Matériaux de Strasbourg  
(IPCMS) CNRS – Strasbourg University– France  
<http://www.ipcms.unistra.fr/?lang=en>

#### Project description:

This post-doctoral position consists of research in the field of femtosecond spectroscopy of magnetic materials with two main directions. (i) Developing ultrafast THz spintronic emitters based on ultrafast spin/charge currents generated by femtosecond optical pulses and their coupling to high frequency transmission lines. (ii) Manipulating the magnetization of ferromagnetic metal layers by picosecond acoustic and electrical pulses.

#### Job profile:

The applicant should hold a PhD in the fields of ultrafast spin/charge dynamics or THz science in solid state systems. Experience in nanomagnetism and spintronics is highly appreciated. The candidate should then have an affinity for working in multidisciplinary teams. He/She will have a major role in this collaboration, interacting with several partner laboratories.

#### Contact:

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