

Post-doctoral position

Experiments in flexible elastic metamaterials



The CNRS Laboratory of Acoustics at the University of Le Mans (LAUM), France, is looking for exceptional and highly motivated candidates to fill a post-doctoral position in the field of nonlinear waves in flexible elastic metamaterials. These are architected structures that can deform significantly, repeatedly, and reversibly, inducing a strong nonlinear wave response.

Qualifications:

The ideal candidate should possess a PhD in wave propagation. Candidates with advanced experimental skills in acoustics/mechanics, wave propagation, and image correlation are strongly encouraged to apply. A solid background in periodic media and nonlinear dynamics is also highly recommended. In addition, proficiency in both written and spoken English is necessary, along with strong communication abilities.



Research Environment:

The postdoctoral position we offer is in one of the largest acoustics laboratories in Europe, equipped with state-of-the-art experimental facilities. LAUM is also known for its family atmosphere and the numerous researchers performing multidisciplinary research on various aspects of wave physics, including acoustic metamaterials, topological phononics, and nonlinear waves. The postdoctoral researcher will collaborate with a team of researchers, post-docs, PhD students, and interns on this project at LAUM. The institution is located in the charming medieval city of Le Mans, less than an hour from Paris.



Objectives:

The post-doctoral fellow will conduct research in the “Materials” team of LAUM. They will be responsible for designing and experimentally characterizing the dynamics of various flexible mechanical metamaterials in collaboration with colleagues at SUPMECA in Paris as part of the ExFLEM 2021-2025 project of the Agence Nationale de la Recherche (ANR).

Application:

To learn more about this position, please email Prof. Vincent Tournat (vincent.tournat@univ-lemans.fr) and Dr Georgios Theocharis (georgios.theocharis@univ-lemans.fr) and include a cover letter, CV and contact information.



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