



HOTLINE project



Université Claude Bernard



Post-Doctoral Position 18 months – (2020-2021)

«Modelling of Thermal Transport in Liquid/Solid nanocomposites»

Starting date: Immediately available or early 2020. Position opened until filled.

at CETHIL laboratory, CNRS, INSA of Lyon and Université Claude Bernard Lyon I , France.

The Micro and Nanoscale Heat Transfer group at CETHIL has a post-doctoral opening in the area of the modelling of thermal transport in liquid/solid nanocomposites. This position is part of an ANR funded project « Hotline », which aims at producing new knowledge on heat transport between a liquid and a solid at nanoscale for a better thermal management of nanoporous materials or contacting objects and gathers the strengths of 3 partners on the topic of heat transport of functionalised surfaces of nanomaterials.

The postdoc will use mainly Molecular Dynamics to investigate the heat transport within several functionalised nanocomposite systems including porous silicon filled with a liquid but she/he is expected to collaborate with a team of theorists and experimentalists (elaboration of materials and measurements) as the project « Hotline » is both fundamental and oriented application research project.

The position is available for a highly motivated candidate with a recent PhD in physics, materials science, mechanical engineering, or related fields. The ideal candidate is one who has a background and/or is strongly interested in the fundamental concepts of thermal transport and related atomistic simulations and computational modelling and thus must have among others good programming skills. The candidate should have experience with either Molecular Dynamics simulation or ab-initio DFT simulation tools. Basic knowledge in materials science and phonon transport is desired. Excellent English writing and oral communication skills are mandatory.

To apply, please send a curriculum vita with list of publications and the names and contact information of two references to CNRS researcher Konstantinos TERMENTZIDIS. The cover letter should explain the relevance of the applicant's background and her/his motivation to the postdoc research topic described above.

The position is available now and will remain open until filled.

Laboratory Website <http://cethil.insa-lyon.fr/en/content/centre-0>

The salary compensation for this position matches the CNRS guidelines for post-doctoral stipends.

Applications (CV, List of publications, Names / contact information of 2 referees) should be send by email before 31-12-2019 to:

Dr. Konstantinos TERMENTZIDIS, CNRS researcher

Email: konstantinos.termentzidis@insa-lyon.fr