



Post-Doctoral Position in Metamaterials and Machine Learning Northwestern University

Description

Applications are invited for a two-year appointment as Postdoctoral Research Associate in metamaterials and ML at the Micro and Nanomechanics Lab, Northwestern University. The candidate will conduct research in the area of mechanics of metamaterials and will be expected to contribute to experimental and computational efforts within a vibrant multidisciplinary research group and closely collaborate with groups in the Materials Science and Chemistry Departments.

Requirements:

1. A Ph.D. in ME, Materials Science and Engineering, Physics, or related field.
2. Experience with a minimum of two of the following:
 - *In situ*/small scale mechanical testing
 - Continuum (FEA, Phase Field) and atomistic (DFT, REBO, ReaxFF) modeling of materials
 - Machine learning applied to mechanics
 - Metamaterial design and optimization
3. A good record of publications
4. Strong verbal and written communication skills. Interested in contributing to the writing of proposals
5. Eligibility to work in the US (suitable visa, OPT or green card).

Why this is a great opportunity:

- Great experience in a top US university with world renowned mechanics groups
- Experience a research university with first-class facilities
- Be part of one of the most collaborative and entrepreneurial environments in the US
- Interaction with leading Nanotechnology researchers at Northwestern and Argonne National Laboratory
- Many cultural and recreational activities at the university and Chicago area

To apply: Interested candidates should email a CV (including list of publications with journal impact factors), cover letter describing research experience and interests, eligibility to work in the US, and the names and email addresses of three references to Professors Horacio D. Espinosa (espinosa@northwestern.edu) and/or Ian McCue (ian.mccue@northwestern.edu). The position will be co-advised.

<http://espinosa.mech.northwestern.edu/>

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