Post-Doctoral Position in
Nanomechanics of Metamaterials
Northwestern University

Description

Applications are invited for a Postdoctoral Research Associate in nanomechanics and metamaterials at the *International Institute of Nanotechnology* at Northwestern University. The candidate will perform research in the area of nanomechanics of materials such as 2D materials (TMDCs, MXenes) and metamaterials. Candidates with experimental or/and computational background are suitable for the position. The candidate will be expected to contribute to a vibrant multidisciplinary research group and closely collaborate with groups at the IIN and other universities.

Requirements:

1. A Ph.D. in ME, Materials Science and Engineering, or related field.
2. Experience with a minimum of two of the following:
   - MEMS design
   - *In situ* electron microscopy experimental characterization
   - Continuum (FEA, Phase Field) and atomistic (DFT, REBO, ReaxFF) modeling of materials
   - Machine learning applied to material design
   - Metamaterial engineering and characterization using spectroscopic/optical techniques, acoustic waves
3. A good record of publications
4. Strong verbal and written communication skills.
5. Current eligibility to work in the US.

Why this is a great opportunity:

- Unique experience at a top US university with top programs in mechanics and materials science and engineering
- Access to first-class research facilities
- Be part of a highly collaborative and entrepreneurial environment
- 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 Professor Horacio D. Espinosa at espinosa@northwestern.edu.

https://espinosa.mech.northwestern.edu/
https://www.iinano.org/

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