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POSTDOCTORAL POSITION IN EXTREME MECHANICS OF METAMATERIALS

Postdoctoral position is immediately available in the Portela Research Group (portela.mit.edu) at MIT. The position will be in the area of **experimental and computational mechanics of metamaterials under extreme conditions**.

The project will be integrated in the group's current research on mechanical metamaterials for extreme resilience, via novel designs and thorough experimental and computational characterization. Specific directions will be determined in part through conversation with the candidate, based on expertise and scientific interests.

The candidate should possess a doctoral degree in mechanical engineering, aerospace engineering, materials science, or related fields. The candidate is expected to be an expert in solid mechanics, and priority will be given to candidates with strong demonstrated background in some of the following areas:

- Experimental nanomechanics and characterization (nanofabrication, SEM, nanomechanical testing);
- Mechanics in extreme conditions (large deformation, high strain-rate);
- Computational mechanics tools (finite element analysis, computer aided design).

Good written English and oral communication skills are required. Interested applicants should contact Prof. Carlos Portela (cportela@mit.edu) including (i) resume with publication list, (ii) contact information for at least 3 references, and (iii) not more than 3 representative publications.

The Portela Research Group at MIT strives to understand, develop, and test novel 3D architected materials to address societal and engineering challenges, with particular focus on extreme conditions. We are a diverse group with expertise in mechanics and materials and perform research across length (nm→cm) and time (ns→s) scales. A current focus of our research is to develop novel metamaterials and understand their response under large or ultrafast deformations.

MIT is an equal-opportunity employer. Women and underrepresented minorities are especially encouraged to apply.