



**RE: Postdoctoral Research Fellow Position**

The **Impact Mechanics Laboratory** at Southern Methodist University welcomes applications for a Postdoctoral Research Fellow position in the area of experimental mechanics, with an emphasis on the dynamic response and damage analysis of high-performance concrete (HPC) and other related heterogeneous materials. The selected candidate is expected to perform high strain-rate experiments on interested materials using the Split Hopkinson (Kolsky) Bar apparatus, and explore the physics of damage initiation/evolution in these materials under dynamic loading conditions. Strong microstructural analysis skills (with SEM and X-ray MicroCT) and proficiency in MATLAB coding are highly preferred.

The Fellow will work under the supervision of Professor Xu Nie, and collaborate with team members from other institutions and/or government agencies. Strong presentation skills and the ability to effectively communicate with external collaborators are desired.

Candidate should have an earned doctorate in Mechanical Engineering, Civil Engineering, Aerospace Engineering, Materials Engineering or related fields. If you are interested, please send an email to Prof. Xu Nie ([xnie@smu.edu](mailto:xnie@smu.edu)) with a single PDF file containing your CV, a one page research statement, a representative journal publication, and the names of at least two references. Applications will be accepted until the position is filled. Appointment can start immediately for admitted applicant.

With over 10,000 students, SMU is a leading private University located in the Dallas - Fort Worth Metroplex, a dynamic region with leading high-technology companies in the aerospace, defense, energy, information technology, life sciences, semiconductors, telecommunications, transportation, and biomedical industries. Some of these companies and research institutions include Texas Instruments, Raytheon, Bell Helicopter, Lockheed-Martin, Turner Construction, Trinity Industries, Baylor Research Institute, and the University of Texas Southwestern Medical Center. Supercomputing facility at SMU currently has over 11,000 CPUs, and is capable of supporting large-scale modeling and simulations.

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