

## **Postdoctoral Fellow Position**

Tissue Mechanics Laboratory  
Wallace H. Coulter Department of Biomedical Engineering  
Georgia Institute of Technology

The Tissue Mechanics Laboratory (TML) has an immediate opening for a postdoctoral fellow position to pursue research in the fields of heart valve mechanics and computational biomechanics. The projects in TML are funded by NIH to study the biomechanics in minimally invasive heart valve intervention. The candidate has opportunities to collaborate with internationally renowned cardiologists and cardiac surgeons at Emory University, Columbia University Medical Center and the Hartford Hospital, to develop population-based and patient-specific biomechanical models to evaluate bioprosthetic heart valve function. The appointment will be a full-time for a 12-month, with annual renewal contingent upon performance. Competitive salary and excellent benefits packages will be offered based on level of experience.

Ideal applicants should have a PhD degree in biomedical engineering, mechanical engineering, or related fields. Candidates should have a background in at least two of the followings: 1) biomechanical testing of biological soft tissue, 2) constitutive modeling of soft tissue (nonlinear, hyperelastic materials), and 3) finite element or computational fluid dynamic simulations of cardiovascular system functions. Previous experience with computational software including Abaqus, Isight, HyperMesh, STAR-CCM+ and Avizo is preferred. Knowledge of medical device design and optimization is a plus. Interested candidates should send a cover letter, CV with contact information of three references and relevant publications in a single PDF document electronically to:

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