Postdoc in Mechanics of Fiber-based materials or textiles
at the University of Pittsburgh

Laboratory of Ocular Biomechanics, University of Pittsburgh

Applications are invited for a postdoctoral position in an exciting project applying advanced fiber-based mechanics to understand the eye and prevent blindness. The successful applicant will join an interdisciplinary team of engineers, clinicians and basic scientists at the Laboratory of Ocular Biomechanics of the University of Pittsburgh.

Candidates must have expertise in the mechanics of fiber-based materials, such as textiles and fiber-reinforced composites. Experience in both experimental testing and numerical modeling is preferred, but a strong track record in either is sufficient. We encourage applications from people interested in making an impact in biomedical and biological sciences, yet whose career and training have been in other areas, such as aerospace or mechanical engineering. Experience with biological samples or soft tissues is not required. Experience in ophthalmology or vision sciences is also not required. Experience in fiber mechanics, ideally interweaving, is required.

The successful candidate will have the opportunity to develop his/her own scientific ideas in the rich environment of the University of Pittsburgh, the University of Pittsburgh Medical Center, the McGowan institute for Regenerative Medicine and the Fox center for vision restoration. Responsibilities will include development and implementation of research protocols, data analysis and interpretation, preparation and presentation of manuscripts and talks, and grant applications.

To apply, send a CV and two representative publications to Ian A. Sigal (ian@OcularBiomechanics.com). More details about the Laboratory of Ocular Biomechanics at www.OcularBiomechanics.org. Applications will only be considered if all the requested documents are submitted and the applicant has experience in fiber-based materials.