



TEXAS A&M
UNIVERSITY

**Texas A&M University
Redox Biology & Cell Signaling Laboratory**

Postdoctoral Fellow/Asst. Research Scientist

A postdoctoral position is available in the Redox Biology Laboratory at Texas A&M University, directed by Dr. John Lawler. We are seeking a highly-motivated candidate as a post-doctoral fellow with an interest in mechanobiology in skeletal muscle and the heart. Our research focuses on redox mechanisms and interventions against (a) unloading-induced skeletal muscle atrophy, (b) radiation exposure and cardiac fibrosis/remodeling, (c) reactive oxygen species in the etiology of Duchenne muscular dystrophy, and (d) the impact of aging in the above disorders. Experience with molecular and cell techniques and gene transfer in rodents, skeletal muscle and/or cardiac histology, microscopy (fluorescence/confocal/AFM/EM), immunoblotting, *in situ* or *ex vivo* muscle contractile function is highly encouraged for candidates. The Redox Biology Laboratory is currently supported by NASA awards and other funding sources.

Texas A&M University is a Tier One Land, Space, and Sea Grant University, and one of two flagship universities in the state of Texas. Texas A&M has been home to the Space Life Science program, with a critical mass of researchers focusing on the effects of spaceflight on musculoskeletal, cardiovascular, microbiome, metabolism, cancer, lymphatics, and ocular function. Core research centers in proteomics, image analysis/microscopy, mass spectrometry, etc. are available, as well as a rich network of multidisciplinary collaborators. Texas A&M University and the Redox Biology Laboratory values creativity, engagement, innovation, excellence, and integrity. The successful applicant would focus on assembly of NOX complexes, and biological mechanisms underlying mechanotransduction during dynamic changes in loading.

Requirements: PhD in biomedical sciences/physiology/kinesiology; Predoctoral/postdoctoral experience, particularly in mechanistic research in skeletal muscle and cardiac muscle. Additional qualifications include excellent interpersonal and communication skills, including experience publishing in high impact peer-reviewed journals.

Salary: Commensurate with experience, University and NASA standards for a Postdoctoral Fellow or Assistant Research Scientist.

Start Date: by June 1, 2019 or until filled.

Contact:

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