Postdoctoral Research Associate

Soft Tissue Biomechanics Laboratory (www.stblvandegeest.com)
University of Pittsburgh

The Soft Tissue Biomechanics Laboratory at the University of Pittsburgh seeks a Postdoctoral Research Associate to advance computational models of vascular growth and remodeling. In close collaboration with a large interdisciplinary team, we are developing a fully biodegradable tissue engineered vascular graft that is compliance matched at implantation and utilizes a novel drug delivery approach to promote compliance maintenance in-vivo. A tightly integrated in-vitro and in-vivo (small and large animal) approach will be used to develop and test the predictive capabilities of a novel multiphysics model (solid, fluid, transport) that incorporates drug delivery and cellular response. This postdoctoral associate will have access to high performance computing resources as well as intravital in-vitro and in-vivo experimental data for validation and predictive studies. As a member of this research project, the postdoctoral associate will work in a collaborative and interdisciplinary group of scientists and clinicians from the Vascular Medicine Institute (VMI) and McGowan Institute for Regenerative Medicine (MIRM), including but not limited to Drs. Steven Little, William R. Wagner, Kang Kim, and Edith Tzeng.

Candidates must hold a PhD in Biomedical Engineering, Mechanical Engineering, Applied Mathematics, Computer Science or a related field. A strong background in computational modeling and/or the theory of soft tissue growth and remodeling is desired.

Interested applicants should apply to requisition number 22001022 at Pitt Talent Center by visiting https://www.join.pitt.edu. Interested individuals should submit: (1) CV, (2) statement of research interest and purpose, (3) unofficial copy of full UG and Grad transcripts, (4) email and phone number for three references. This position will remain open until filled.

The Department of Bioengineering is fully committed to a diverse academic environment, and we place high priority on identifying female and underrepresented minority candidates.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity. EOE, including disability/vets

The University of Pittsburgh requires all Pitt constituents (employees and students) on all campuses to be vaccinated against COVID-19 or have an approved exemption. Visit https://www.coronavirus.pitt.edu/ to learn more about this requirement.