

Postdoctoral Fellow in Cardiovascular Tissue Engineering

A postdoctoral position is available in the laboratory of Ngan F Huang, Ph.D., Assistant Professor in the Department of Cardiothoracic Surgery at Stanford University School of Medicine, and Principal Investigator in the VA Palo Alto Health Care System.

We are interested in engineering cardiovascular tissues using cardiomyocytes and endothelial cells derived from induced pluripotent stem cells into cardiomyocytes. In particular, we are interested in utilizing nanofibrillar biomaterials to guide the assembly of cells into vascularized anisotropic tissues for in vivo testing in rodent models.

We are looking for highly motivated postdoctoral candidates with a PhD in bioengineering or other engineering discipline, with deep knowledge in stem cell biology and biomaterials. Candidates with a molecular biology degree with experience in bioengineering applications may also be considered. The successful candidate should have a good publication record, be experienced in pluripotent stem cell culture and differentiation methods, and have good scientific communication skills. Experience with cardiac electrophysiology, electrospinning, three-dimensional printing, hydrogel fabrication, and small animal surgery (myocardial infarction, hindlimb ischemia) are preferred.

Interested applicants should send a CV and cover letter outlining research experience and interests to Dr. Huang at ngantina@stanford.edu.