

Postdoctoral fellow in cardiac regeneration. Our group has developed robust methods to engineer highly functional human ES and iPS cell derived heart tissues for use in drug development, disease modeling, and cardiac regenerative therapies. We are looking for a talented postdoctoral fellow with expertise in cardiac biology and differentiation of human iPS cells that would pursue studies of human cardiomyocyte proliferation and differentiation in engineered human tissues *in vitro* and rodent models of myocardial infarction *in vivo*. This fellow will be involved in screening of small molecule inducers of cardiomyocyte proliferation and hypertrophy and study mechanisms of their action *in vitro* and *in vivo*. Studies will also involve physiological measurements of cardiac electrical and mechanical function at a variety of spatial scales from a single cell to whole organ. This work is the part of a large interdisciplinary project involving cardiac cell and developmental biologists, bioengineers, and clinical scientists.

Qualifications include PhD in developmental and cell biology, biomedical engineering, or other relevant areas of biomedical sciences. The applicant is required to have extensive knowledge of cardiac biology and experience in human ES and iPS culture and cardiomyocyte differentiation. Expertise in modern techniques of genetic engineering, molecular biology, and animal experimentation are highly desired. The candidate needs to be self-motivated, independent, good communicator, and able to work within a large team of scientists with diverse backgrounds. Our group provides a stimulating environment with excellent opportunities for scientific growth and pursuit of academic career. Interested candidates should send their resume, statement of research goals, and three letters of recommendation to Dr. Nenad Bursac (nbursac@duke.edu). Lab website: <http://bursaclab.pratt.duke.edu/>