
Postdoctoral Position Cardiovascular Research/Congenital Heart Disease

A postdoctoral position is available starting February 2021 in the [Nikkhah lab](#) at Arizona State University (ASU). The Nikkhah lab is a highly productive and dynamic research environment within the [School of Biological and Health Systems Engineering \(SBHSE\)](#) at ASU. The research in the Nikkhah lab focuses on the integration of micro- and nano-scale technologies, innovative biomaterials, and biology to better understand the mechanisms of disease progression in humans, and to develop regenerative medicine strategies to treat organ/tissue failure. The ongoing projects specifically focus on the development of biomimetic tissue models for cardiovascular regenerative medicine and disease modeling, the synthesis and characterization of new classes of electrically conductive and injectable hydrogels, and engineering of innovative tumor microenvironment models to study the biological mechanisms of tumor cell metastasis. Additional information can be found at the Nikkhah lab website: <https://faculty.engineering.asu.edu/nikkhah/>.

Details:

This position is for a recently funded project with our clinical partners in Phoenix Children's Hospital (PCH). The project is focused on studying the electrical pacing system in the heart, particularly in infants with congenital heart disease, and designing biologically inspired materials for repair of abnormal pacing systems. This project is highly interdisciplinary within an interactive and team-oriented collaborative environment with cardiovascular clinicians and surgeons.

Necessary qualifications:

- MD or Ph.D. degree in Biomedical Engineering or a related field
- Strong publication track record
- Previous experience in mammalian cell culture and related biological assays
- Previous experience in working with hydrogel-based biomaterials or nanomaterials
- Highly independent with excellent leadership skills and proficient work ethics
- Ability to incorporate innovative approaches into a research project
- Excellent writing and communication skills
- Ability to help with preparation of scientific proposals

Desired qualifications:

- Previous hands-on experience in human stem cell culture: maintenance, and differentiation
- Previous hands-on experience in animal-related studies and animal surgeries
- Sufficient chemistry and biology background
- Familiarity with micro- and nano-scale technologies

Note: Only candidates with valid work authorization will be considered

Arizona State University (ASU):

ASU is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.

Please send applications, including resume/CV and contact information from three references, via email to Dr. Mehdi Nikkhah at mnikkhah@asu.edu