This position is available for 3 years, and it is available as early as June 1, 2019.

**Required Qualifications:** We are seeking highly motivated individuals with a PhD (or equivalent) in a relevant field with a strong background of Cardiac Physiology and Arrhythmias. Experience in Cardiac Electrophysiology, cardiac MRI, Immunochemistry, and confocal microscopy as well as computer analysis of experimental data using Matlab, Piton, LabView, and other programs are preferred. Applicants must have good knowledge of the English language, both spoken and written, and ability to work independently.

**Job Description:** A Post-Doctoral Research Position will be available for a highly motivated scientist to study arrhythmia mechanisms in human hearts by using novel functional, molecular, and 3D structural mapping techniques in Dr. Vadim Fedorov’s lab at The Ohio State University Wexner Medical Center, Columbus, USA. Web page: [http://medicine.osu.edu/physiology/faculty-research/vadimfedorov/pages/index.aspx](http://medicine.osu.edu/physiology/faculty-research/vadimfedorov/pages/index.aspx). Our group utilizes integrated state-of-the-art 3D imaging approaches including optical mapping and MRI to uncover the functional, structural, and molecular mechanisms of malignant cardiac arrhythmias directly in the human heart. We are looking for a postdoc to work on a recently developed human heart research project targeting the development of new patient-specific antiarrhythmic treatments. In addition to research skills, he or she will analyze data, write manuscripts, assist Dr. Fedorov in writing grant proposals, and also present research findings at local and international scientific conferences.

This is a unique opportunity to work on groundbreaking projects in a laboratory with state-of-the-art equipment, including panoramic and transmural optical mapping and contrast-enhanced magnetic resonance imaging. Press releases on our current research can be found at the following links: [https://abc6onyourside.com/features/sinclair-cares/breakthrough-heart-research-helping-patients-not-miss-a-beat](https://abc6onyourside.com/features/sinclair-cares/breakthrough-heart-research-helping-patients-not-miss-a-beat). The successful applicant will join a lively, multi-disciplinary team including physiologists and cell biologists, biomedical engineers, clinical electrophysiologists, and cardiac surgeons in an outstanding research environment at the Ohio State University Wexner Medical Center. A competitive salary and benefits according to NIH guidelines and commensurate with the postdoctoral experience of the candidate will be offered.

**How to Apply:** Applicants should submit their CV accompanied by a letter of intent describing the applicant’s future research and career plans. In addition, three letters of recommendation should be submitted separately by research experts who are familiar with the applicant’s scientific experience, technical and interpersonal skills.

All materials should be addressed to: **Dr. Vadim Fedorov**, Email: vadim.fedorov@osumc.edu