

Cardiovascular Interventional Lab, NHLBI, NIH
Research Fellow position

The Cardiovascular Interventional Lab of the National Heart, Lung, and Blood Institute (National Institutes of Health) is seeking two experienced research associates to assist in the development of active interventional devices. This laboratory focuses on novel mechanical and biological treatments for heart and peripheral artery diseases, particularly treatments guided by magnetic resonance imaging. The laboratory collaborates closely with the Medical Imaging Section in the Lab of Cardiac Energetics and with other Cardiovascular Branch investigators.

These positions have a unique meld into various disciplines. From the industrial perspective, they will gain familiarity with fabrication methods of clinical-grade active guidewires and catheters, MR imaging, and MR RF electronics. Clinically, students have the opportunity to observe interventional procedures, attend cardiology rounds and clinic, conduct animal experiments, attend conferences, and gain insight into interventional cardiology that most physicians only gain in their residency and fellowship years. Students will have a chance to pursue independent projects in addition to participating in other lab projects of cardiology fellows. Employment will be effected through NIH's student research scholarship, the post-baccalaureate Intramural Research Training Award program. Employment period is 1-2 years, preferably two.

Requirements/Qualifications:

We are seeking candidates with a BS or an MS in biomedical engineering, preferably with experience in electrical engineering or mechanical engineering. For those with EE background, experience in RF electronics will be most helpful. Mechanical engineering students should be skilled with 3-D CAD design, such as Pro-Engineering. Other useful skills include proficiency with programs such as Matlab and Autocad, experience with RF circuit design, and excellent oral communication and documentation skills.

Students must be well-organized and keep excellent written record of their work, since they will be expected to work on several projects at once. They should also independently search and read literature, identify improvements in existing methods and work within teams to suggest alternate approaches or technologies to meet team goals. They should be able to analyze and interpret data and serve as a technical expert to support team decisions.

Please send resume and cover letter to:

Dr. Robert J. Lederman (ledermar@nhlbi.nih.gov) and Ozgur Kocaturk (kocaturko@nhlbi.nih.gov)

NIH Postbacc Website: <http://preirta.nih.gov>

NIH Virtual Career Center: <http://www.training.nih.gov/careers>