The Laboratory of Imaging Technology in the Division of Intramural Research, National Heart, Lung, and Blood Institute (NHLBI) is seeking exceptional postdoctoral fellows. The Laboratory of Imaging Technology is focused on the development of techniques for diagnostic imaging and interventional imaging. We are particularly interested in developing fast, patient friendly cardiovascular MRI techniques. The work is centered around real-time imaging and reconstruction methods with a focus on well-engineered solutions that can be deployed and tested in a clinical environment. The laboratory is based on the NIH campus in Bethesda, MD, where we have close collaborations with outstanding clinical groups. We have access to multiple clinical MRI systems at the NIH campus and the NHLBI Interventional MRI facility at Children’s National Medical Center in Washington, DC.

There are strong interactions with a wide range of independent research groups, and the position offers exceptional opportunities for interdisciplinary collaboration within and outside of the NIH. The existing faculty in the NHLBI DIR is an outstanding group of internationally recognized biomedical researchers covering a wide range of basic and clinical research topics (please see https://www.nhlbi.nih.gov/research/intramural) complemented by the other research institutes within the DIR (please see http://www.nih.gov/science/#campus).

We are seeking candidates who are interested in one or more of the following topics:

- Real-time imaging
- Interventional MRI
- Non-Cartesian sampling
- Free breathing cardiac MRI
- Phase contrast velocity mapping
- Quantitative MRI (parametric mapping, perfusion, etc.)
- Advanced (fast) image reconstruction

Candidates must have a PhD in MRI physics, engineering, or related discipline. Candidates should have experience with MRI pulse sequence development and/or image reconstruction software. Good software development skills are an advantage. The laboratory has a strong focus on developing practical techniques that can be deployed clinically and candidates should be interested in working on all aspects of method development from theoretical understanding to practical implementation.

Applications from women, minorities and persons with disabilities are strongly encouraged. The NIH is dedicated to building a diverse community in its training and employment programs. Applicants should email curriculum vitae with complete bibliography and contact information for at least 3 references to:

Michael S. Hansen, Ph.D.
michael.hansen@nih.gov

Applications will be accepted until the position is filled.