Post Doctoral Researcher

The Advanced Ophthalmic Imaging Laboratory is comprised of a team of ophthalmologists, engineers, software specialists, statisticians, and trainees that focus primarily on glaucoma research. Glaucoma, the second leading cause of blindness worldwide, is a neurodegenerative disease that affects the retina and optic nerve of the eye. There is currently no known cure for glaucoma, and therefore early disease detection is of the utmost importance for vision conservation. Our lab uses a variety of advanced imaging devices, tools, and techniques in order to detect glaucoma as soon as possible, monitor glaucomatous progression, and investigate new theories about the cause and pathogenesis of the disease.

We are searching for a creative and motivated post-doctoral researcher with an interest in clinical and pre-clinical applications of in vivo ophthalmic imaging techniques. Preference will be given to candidates with demonstrated expertise in one or more of the following areas:

- Optical coherence tomography
- Electroretinogram (ERG)
- Image processing
- Non-human primate animal research experience

The ideal candidate will hold an MD or PhD in biomedical engineering/bioengineering, physics, optics or a closely related field. S/he should be comfortable working directly with non-human primates, have an interest in clinical translation research, have excellent written and oral communication skills, knows how to work with research software (Visual Studio, XCode, MATLAB, and/or LabView), and have the ability to work independently as well as on a collaborative and supportive interdisciplinary team.

Specific responsibilities include:

- Acquiring images in non-human primate models
- Analyzing experimental results
- Maintaining and aligning imaging equipment as needed
- Image processing on MATLAB/Image-J (or Fiji)
- Presenting findings at scientific meetings
- Writing and submitting manuscripts to peer-reviewed journals
- Contributing to grant proposals
- Mentoring students or visiting fellows

The start date is as soon as possible, with anticipated duration of at least 2 years.

For more information about this position, please contact Gadi Wollstein at gadi.wollstein@nyulangone.org or (929)-455-5530