The Department of Radiology and Imaging Sciences (RIS) seeks applicants for a postdoctoral position in the Center for Infectious Disease Imaging (CIDI). The CIDI is a partnership between the NIH Clinical Center’s Radiology Department and the National Institute of Allergy and Infectious Disease (NIAID) to innovate new research and clinical methods for infectious disease patient care. This position entails researching and developing novel software and quantitative algorithms for analyzing infectious disease on medical images, including CT, MRI, SPECT, PET and Ultrasound. More recently, we are using the newest MRI-PET multi-modal imaging technology for our clinical studies. We also collaborate with clinicians and scientists from Johns Hopkins University, University of Louisville, and University of Pennsylvania for various projects.

Candidates filling this position will have gain experience in (i) image analysis (image segmentation and registration), (ii) disease quantification, and (iii) systems biology (i.e., data fusion between images and clinical information), by joining a multidisciplinary team of computer scientists, engineers, clinical physicians, radiologists, and radiologic physicists to publish new research with the lab’s principal investigator and CIDI Deputy Director.

**Education Required:** Possession of a Ph.D. degree or equivalent in Computer Science, Biomedical Imaging or a related field. Foreign educated candidates who have completed part or all of their education outside of the United States must have their foreign education evaluated by an SAIC-approved accrediting organization to assure that it has met the equivalency of the qualifications of degree work in the United States.

**Required Skills/Experience:**
- Experience with one or more of imaging modalities (CT, MRI, SPECT, PET, and Ultrasound).
• Software development experience in **machine learning** and **medical image visualization** are highly desirable.
• Proficiency in C/C++, Matlab, and/or JAVA programming languages
• Experience in scripting and using Unix/Linux and Mac OS.
• Experience with cross-platform software build and development.
• Experience working in a team-oriented environment and excellent communication skills.
• This position is subject to obtaining a Public Trust Clearance.
• Hands-on experience with open-source image analysis software and libraries (ITK/VTK), and statistical programming with R.

Please send your CV to **Dr Ulas Bagci** (ulas.bagci@nih.gov) and/or **Dr Daniel J Mollura** (daniel.mollura@nih.gov)

Some of the selected representative Lab publications are given below (http://ulasbagci.com/publications-2/):

• Joint Segmentation of Functional and Anatomical Images: Applications in Quantification of Lesions from PET, PET-CT, MRI-PET, and MRI-PET-CT Images. U.Bagci et al., *Medical Image Analysis*, VOL. 17 (8), PP. 929-945, 2013.
• Denoising PET Images Using Singular Value Thresholding and Stein’s Unbiased Risk Estimate. U. Bagci and D. Mollura, *MICCAI 2013*.
• Learning Shape and Texture Characteristics of CT Tree-in-Bud Opacities for CAD Systems. U.Bagci et al., *MICCAI 2011*.