Assistant Professor of Research  
USC Stevens Neuroimaging and Informatics Institute

The USC Stevens Neuroimaging and Informatics Institute aims to enhance discovery through the application of imaging and other data and information technologies in the study of the brain. The Institute is dedicated to excellence in data acquisition, analysis, stewardship and computational innovation for the purpose of biomedical research.

The Institute is comprised of the Laboratory of Neuro Imaging (LONI), the Imaging Genetics Center (IGC) and the Center for Image Acquisition (CIA). The Laboratory of Neuro Imaging (LONI) seeks to improve understanding of the brain in health and disease. The laboratory manages considerable computational infrastructure and is dedicated to the development of scientific approaches for the comprehensive mapping of brain structure and function. The Imaging Genetics Center (IGC) is involved in studying brain imaging, genetics, and the connections between them. The Center for Image Acquisition (CIA) is home to a Siemens Magnetom Prisma, a new 3 Tesla MRI scanner and a Siemens Magnetom 7T MRI scanner, and is focused on the development and application of innovative MR image acquisition in normal and diseased subjects.

In addition to the research goals, INI trains the next generation of scientists through the Masters in Neuroimaging and Informatics program. This one-year advanced program of study will provide students with a deep understanding of the scientific and clinical underpinnings of neuroimaging science and how to leverage it in large-scale to make new and important discoveries in biomedicine.

The USC Stevens Neuroimaging and Informatics Institute seeks highly-qualified applicants for the position of Assistant Professor of Research (non-tenure track). The successful applicant will have a minimum 2+ years experience in mathematical modeling, biomedical image analysis, statistical analysis, bioinformatics, big data, multimodal MRI, methods development in MRI, or data mining techniques. The applicant should be skilled at mathematical and computer science applications in order to understand biological structures. They must have made efforts in brain mapping and visualization with the focus on the ability to automatically identify, detect, model and measure anatomic and functional features within brain scans. The applicant must also have experience in the field of medical imaging as it pertains to the computerized analysis of 3D medical images of brain.

The applicant must demonstrate extensive programming skills in several languages, such as C++, Python, Matlab, Java, R. He or she should also have substantial experience in developing and validating biologically relevant models from complex MRI data. We are searching for applicants who are internationally recognized for their technical and mathematical sophistication, as demonstrated by first-author publications in premier medical imaging conferences and journals.
The applicant must have demonstrated teaching and leadership ability, for example via organized workshops, and student mentorship. Once established, the Assistant Professor of Research is expected to teach a course in the NIIN Masters Program. There are significant opportunities for career development and involvement in neuroimaging collaborations worldwide.

The University of Southern California strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups, people with disabilities, and veterans are encouraged to apply.

To apply, please send cover letter, CV and list of references to applications@ini.usc.edu. Incomplete applications may not be reviewed. Principals only; no agency or offsite. Absolutely no calls.