NCIRE
The Veterans Health Research Institute

Job Details

Requisition Number	**19-0100**
Post Date	**11/26/2019**
Title	**Research Scientist Assist**
Employment Type	**Full Time**
Campus	**SF VA Medical Center**
City	**San Francisco**
State	**CA**
Description	We have an extremely innovative and exciting opportunity for a Research Scientist (Assistant Level) at the Northern California Institute for Health and Education (NCIRE) in San Francisco. The applicant will be involved in developing 2nd Gen 7T MRI technology with the San Francisco Veteran Affairs Health Care System (SFVAHCS), UCSF and UC Berkeley as part of a recently funded BRAIN Initiative R01 project entitled “Breaking the Barriers to Microscale fMRI”. The goal of the project is to develop and integrate several key novel technologies in order to achieve anatomical quality, whole brain, microscale (≤ 500 µm isotropic) fMRI. Key technologies include: StImulus-Locked K-Space (SILK) fMRI, SLIDER-SMS fMRI, prospective and passive motion mitigation (i.e. technologies provided by Kineticor and Caseforge), and dynamic B0 correction (i.e. technologies provided by Siemens, MGH, and Skope). The project will leverage our newly upgraded Siemens 7T Plus scanner (32ch Rx, 8 ch Tx) at the SFVAHCS, as well as the 2nd Gen 7T MRI at UC Berkeley which will include 128 ch Rx, 16 ch Tx and newly designed head gradients (Gmax=200 mT/m, Gslew = 700 T/m/s). The applicant will have the opportunity to work closely with several world-renowned collaborators including Drs. David Feinberg and Chunlei Liu (UC Berkeley); Dr. Pratik Mukherjee (UCSF); Drs. Benedict Poser and Laurentius Huber (Maastricht); and Dr. Larry Wald (MGH). The Principal Investigator of the project is An (Joseph) Vu, PhD, UCSF Assistant Professor of Radiology and Biomedical Imaging, who is also Director of Advanced Imaging Technology at the Veteran Affairs Advanced Imaging Research Center (VAARC). Essential Functions / Job Responsibilities: • Develop novel technology on 7T MRI systems at SFVAHCS, UCSF and UC Berkeley • Work with Principal Investigator and collaborators to generate hypotheses, program pulse sequences / reconstruction code, plan experiments, scan participants and interpret data • Seek out new funding opportunities and assist with writing grants and proposals • Write abstracts and manuscripts
Requirements	• PhD or its equivalent in Physics, Electrical Engineering, Bioengineering, or related fields • 5 years of MRI research experience • Pulse sequence programming experience • MRI reconstruction experience • Experience in MATLAB/Python and Linux-based command line operations • Excellent teamwork, time management and organizational skills • Demonstrated experience in scientific writing: must be able to provide examples of material that the applicant has written (e.g. abstracts, manuscripts, or grant applications).

- Equal Opportunity Employer/Protected Veterans/Individuals with Disabilities.
- Please view Equal Employment Opportunity Posters provided by OFCCP here.
- The contractor will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. However, employees who have access to the compensation information of other employees or applicants as a part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the contractor's legal duty to furnish information. 41 CFR 60-1.35(c)

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