



Post Doctoral Fellow I (MRI R&D)

Full Time

Bethesda, MD

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About The Position

The Post-Doctoral Fellow I will provide specialized assistance to the Principal Investigator, Co-Investigators, and Research Staff in advanced Magnetic Resonance Imaging (MRI) research and development. This position focuses on the development, implementation, and optimization of novel MRI acquisition sequences and reconstruction algorithms. The fellow will work independently on complex technical challenges while collaborating with interdisciplinary teams to advance MRI technology for clinical and research applications.

This is an on-site position at the Walter Reed National Military Medical Center (WRNMMC) in Bethesda, MD. A thorough government background check will be administered.

About The Program

Advanced Imaging Platform for Microstructural and Functional Connectivity in Mild Traumatic Brain Injury (TBI). This research project focuses on the development and evaluation of advanced neuroimaging techniques to investigate brain connectivity and microstructural changes associated with neurological injury. The work involves both human and animal models and integrates imaging with complementary biological assessments.

Salary Range

\$75,000 - \$90,000. Salaries are determined based on several factors including external market data, internal equity, and the candidate's related knowledge, skills, and abilities for the position.



Qualifications

- **PhD in Biomedical Engineering, Electrical Engineering, or Medical Physics required**
- **Experience working with MRI acquisition and/or reconstruction required**
- **Strong working knowledge of MRI Physics required**
- **Proficiency in computer programming with C/C++ and/or Python required**
- **U.S. Citizenship required**
- Experience with MRI pulse sequence development on GE and/or Siemens platforms preferred
- Hands-on experience working with clinical MRI systems preferred
- Ability to work independently to troubleshoot novel MRI acquisition sequences and develop solutions thereof preferred
- 1-2 years medical research project management experience strongly desired, preferably with Department of Defense
- Knowledge of military system, preferred
- Demonstrate competence in oral and written communication
- Must be organized, attentive to detail, and possess a positive, friendly and professional demeanor
- Ability to be flexible with changing priorities and available to interact with employees, clients and sponsors of all levels
- Ability to exercise independent judgment in fast-paced, high-pressured environment with strict deadlines and to manage multiple projects
- Computer skills including at least intermediate level experience with Excel and other Microsoft Office Software

Responsibilities

- Conduct advanced MRI research and development activities
- Develop and optimize MRI acquisition sequences and reconstruction algorithms
- Implement and test novel MRI techniques on clinical and research systems
- Perform computational analysis and programming for MRI data processing
- Troubleshoot technical issues with MRI acquisition sequences independently



- Collaborate with engineering and clinical teams on MRI technology development projects
- Document technical procedures, methods, and findings in research protocols and publications
- Collaborate and assist the Principal Investigator, Co-Investigators and research team in the performance the research study
- Contribute to the drafting and submitting of abstracts, manuscripts and reports for dissemination
- Prepare progress reports on research as required
- Analyze and write-up data
- Present complex information effectively to a range of audiences
- Provide data management assistance
- Provide project close-out support

Benefits

Our benefits package includes financial rewards that are a significant part of the employee's total rewards compensation package. Geneva's highly competitive benefits include medical, dental, and vision healthcare, Flexible Spending Account, Health Savings account, with employer contribution. Coverage is provided for employees and family members including domestic partners. Short-and long-term disability, Employee Assistance Program, Life & ADD insurance, 403b retirement plan with generous employer match, flexible leave options, 11 paid holidays per year, and up to 4 weeks of paid time off in a rolling year. Employees may qualify for PSLF as Geneva is a 501(c)(3) nonprofit organization. Full time positions come with all benefits. Part time and intermittent positions may vary.

About Us

Transforming Military Medicine to Save Lives Worldwide.

Advancing Military Medicine, Ensuring Mission Success

Geneva accelerates operationally relevant, military-unique research that aligns with Department of Defense (DoD) requirements to ensure mission success. We turn innovation into action, delivering deployable medical solutions that protect the health, readiness, and capabilities of service members and the communities they serve.

Geneva operates where the mission happens—embedded at military research sites, test ranges, and laboratories worldwide. Our agile infrastructure, deep operational



expertise, and commitment to collaboration enable fast, compliant, and effective R&D in complex environments.

With deep expertise in research operations, government contracting, strategic collaborations, and commercialization, Geneva is a trusted partner, helping the DoD innovate at speed and scale.

Our Mission

To advance military medicine through research, development, and education.

Our Core Values

Integrity | Superior Customer Service | Quality | Innovation | Teamwork | Respect for All

Geneva is a 501(c)3 nonprofit that advances military medicine through research, development, and education as we pursue our purpose to ensure optimal health for service members and the communities they serve. The Geneva Foundation is an equal opportunity employer.

Geneva Employees Make An Impact

As a leader in military medical research, at Geneva, our professionals develop critical solutions – and build rewarding careers. Our team of more than 400 employees across the world joins forces with some of the world's leading researchers and innovators, who are committed to the advancement of military medicine worldwide.

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