

## **Postdoctoral Associate**

### **Required Qualifications:** (as evidenced by an attached resume)

PhD (or foreign equivalent) in Biomedical Engineering, Medical Physics, Electrical, Computer Engineering or a closely related field. Proficiency in MATLAB or Python. Prior experience with Neuroimaging analysis and/or medical image analysis. At least one journal publication as first author.

### **Preferred Qualifications:**

PhD with a strong background in MRI physics. Hands-on experience with Siemens MRI scanners. Hands-on experience with Linux operating systems.

### **Brief Description of Duties:**

The Postdoctoral Associate will assist the Principal Investigator

[https://renaissance.stonybrookmedicine.edu/radiology/research/laboratories/Yicun-](https://renaissance.stonybrookmedicine.edu/radiology/research/laboratories/Yicun-Wang)

Wang in the <https://renaissance.stonybrookmedicine.edu/radiology/research/overview>.

The incumbent will conduct research and ensure that all experiments are appropriately conducted following the policies and procedures of Stony Brook University.

We are looking for a highly motivated Postdoctoral Associate for a two-year appointment (with the possibility of extension) in Dr. Yicun Wang's Neuroimaging laboratory in the Department of Radiology at Stony Brook University. The successful candidate will lead efforts to quantify multi-scale neurofluid dynamics, including blood flow and cerebrospinal fluid movement, using state-of-the-art MRI methods alongside simultaneous physiological monitoring. The Postdoctoral Associate should possess good verbal and written communication skills in English, the ability to work productively and independently in a collaborative environment, strong problem-solving skills, and be willing to provide mentorship to junior members of the laboratory.

- Data acquisition and sequence implementation: operate a 3 T Siemens Prisma Fit (and additional 3 T systems if desired) to collect structural and dynamic MRI data.
- Quantitative analysis: develop pipelines for dynamic MRI and physiologic data; integrate multimodal metrics to uncover fluid-flow interactions.
- Clinical collaboration, working closely with neurologists and neurosurgeons on studies of healthy aging and hydrocephalus (pre-and post-shunt) as well as other patient cohorts.
- Dissemination and mentorship: present results at conferences, prepare manuscripts for peer-reviewed journals, and mentor graduate students and research assistants.
- Other duties as assigned, depending on the research interest of the incumbent may include MRI pulse sequence and/or reconstruction development across multiple 3 T platforms, and participation in complementary projects such as longitudinal quantitative MRI of brain aging and PET/MRI studies of neuroinflammation.

**Special Notes:**

The Research Foundation of SUNY is a private educational corporation. Employment is subject to the Research Foundation policies and procedures, sponsor guidelines and the availability of funding. FLSA Exempt position, not eligible for the overtime provisions of the FLSA. Minimum salary threshold must be met to maintain FLSA exemption.

Visit <https://www.stonybrook.edu/commcms/postdoc/> to learn more about our postdoctoral community.

Resume/CV and cover letter should be included with the online application.

**Stony Brook University is committed to excellence in diversity and the creation of an inclusive learning, and working environment. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, familial status, sexual orientation, gender identity or expression, age, disability, genetic information, veteran status and all other protected classes under federal or state laws.**

If you need a disability-related accommodation, please call the university Office of Equity and Access (OEA) at or visit <https://www.stonybrook.edu/commcms/oea/>.

**In accordance with the Title II Crime Awareness and Security Act a copy of our crime statistics can be viewed** <https://www.stonybrook.edu/police/>.

Visit our <https://www.stonybrook.edu/jobs/working-here/> page to learn about the **total rewards** we offer.

[https://www.stonybrook.edu/human-resources/total-rewards/\\_postdocs/rf\\_postdoctoral\\_employees/](https://www.stonybrook.edu/human-resources/total-rewards/_postdocs/rf_postdoctoral_employees/)

The starting salary range (or hiring range) to be offered for this position is noted below, it represents SBU's good faith and reasonable estimate of the range of possible compensation at the time of posting.

**Salary:** \$50,000-\$65,000

**To apply, visit <https://apptrkr.com/6183775>**

Copyright ©2025 Jobelephant.com Inc. All rights reserved.

<https://www.jobelephant.com/>