Postdoctoral Associate

Required Qualifications: (Evidenced by an attached resume)
PhD (or foreign equivalent) in Geosciences, Chemistry, Physics, or a related discipline by Spring 2022. Applicant must have demonstrated experience, through publication including thesis, with working within situ apparatus, with calibration of this apparatus and with an experimental program using in situ techniques.

Preferred Qualifications:
Work with powder and/or single crystal, x-ray and/or neutron diffraction either in the laboratory setting or at national synchrotron x-ray and/or neutron facilities. Demonstration through thesis and/or published work of familiarity with modern wide-angle diffraction techniques at non-ambient conditions.

Other than standard diffraction tools at national facilities the following would be preferred:

• Pair Distribution Function Analysis.
• Small angle scattering.
• Good communication skills as demonstrated in interview, seminar, and published work.
• Experience in supervision and training of graduate/high school students and other outreach activities (especially with minorities).
• Ability to set-up, test and supervise operation of in situ equipment, collaborate and interface with collaborators and form strong relationships with key players at the national sources (NSLS-II, APS and SNS) to move existing projects forward.
• Day to day supervision and mentoring of graduate students.
• Experience in solid state synthesis techniques.
• Familiarity with chemical analysis techniques such as electron beam microprobe and/or energy dispersive x-ray analysis.
• Experience in programming in Python, C/C++, and/or Matlab.
• Experience in using CAD 3D design software e.g., SolidWorks, AutoCAD, 123D Design or other similar software.

Brief Description of Duties:
Postdoctoral researcher to move ahead with new avenues as part of a wider effort in synthesis, and high-pressure work at SBU-BNL. Please visit https://www.stonybrook.edu/geosciences/ to learn more about our department/research.

Duties to include:

• Individual research in discovery and testing of novel phases
• Preparation of manuscripts and beamline proposals with graduate students
• Supervision and training of graduate students in synthesis/in situ scattering
• Travel and aid in data collection at neutron and x-ray sources
• Set-up, testing and supervise operation of in situ sample environments, including high-pressure equipment
• Overall Project Supervision and Coordination
• Interaction with theory groups to select targets for synthesis.
• Other duties or projects as assigned as appropriate to rank and departmental mission.
Special Notes:
This is a full-time appointment. 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/](https://www.stonybrook.edu/commcms/postdoc/) to learn more about our postdoctoral community.

In accordance with the New York State Department of Health (DOH) regulation that all hospitals and nursing homes "continuously require all personnel to be fully vaccinated against COVID-19," Candidates who are not already vaccinated must obtain the first dose of the vaccine within three (3) calendar days of acceptance of conditional job offer and must obtain any subsequent doses in accordance with the vaccine protocol. Candidates who are partially vaccinated, but not yet fully vaccinated, must complete their vaccination series within three (3) calendar days of job offer or in accordance with vaccine manufacture protocol, whichever comes later.

The regulation also includes those who may be affiliated with or interact with employees of a hospital or nursing home. The regulation allows for limited exemptions with reasonable accommodations, consistent with applicable law.

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/](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/](https://www.stonybrook.edu/police/).

Visit our [https://www.stonybrook.edu/commcms/jobs/working-here/index.php](https://www.stonybrook.edu/commcms/jobs/working-here/index.php) page to learn about the total rewards we offer.

Job Number: 2104816
Official Job Title: Postdoctoral Associate
Job Field: Post Doctoral
Primary Location: US-NY-Stony Brook
Department/Hiring Area: Geosciences
Schedule: Full-time
Shift: Day Shift
Shift Hours: 8:00 AM - 5:00 PM
Posting Start Date: Jan 6, 2022
Posting End Date: Mar 1, 2022, 8:59:00 PM
Salary: Commensurate with experience
Appointment Type: Regular
Salary Grade: SL1

To apply, visit [https://aptrkr.com/2825167](https://aptrkr.com/2825167)

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