

Brown University
Department of Physics

Postdoctoral Research Associate

The Nanoscale Physics and Devices Lab led by Professor Gang Xiao in the Department of Physics at Brown University is seeking a Postdoctoral Research Associate to perform research on spintronic physics and devices. The primary objective is to design, fabricate, and test ultrasensitive solid-state magnetic tunneling junction sensors and arrays, and apply them to investigate physical and/or biological systems. The research requires the understanding of the basic physics in spintronics and engineering to make the spintronic devices highly performing. The project involves high vacuum thin film deposition, microelectronics fabrication, magnetometry and magnetotransport characterization, and applications of spintronics. The candidate is encouraged to participate in other projects in Professor Xiao's lab. Previous experience with spintronics, thin film materials and synthesis, lithography, microelectronic processing, and characterization is an advantage, but not a necessity.

Applicants must have completed, or be close to completing, a PhD in physics or other closely related field such as materials science. Candidates who are seeking a second postdoc are welcome to apply. Candidates must have an excellent track record of academic performance including scientific publications. Start date is planned for January 2023 but is negotiable. The initial appointment will be for one year with the possibility of extension. Application materials include a curriculum vita, a brief (1 page or less) statement of past research and current interests, and at least three letters of recommendation should be submitted electronically to <http://apply.interfolio.com/116491>. Review of applications will begin immediately and continue until the position is filled. In their cover letter applicants should address their experience or ideas for contributing to an open and inclusive laboratory environment.

Brown University seeks to recruit and retain a diverse workforce to maintain the excellence of the University, and to offer our students richly varied disciplines, perspectives, viewpoints, and ways of knowing and learning.

Brown University is committed to fostering a diverse and inclusive academic global community; as an EEO/AA employer, Brown considers applicants for employment without regard to, and does not discriminate on the basis of gender, race, protected veteran status, disability, or any other legally protected status.

Brown University seeks to recruit and retain a diverse workforce to maintain the excellence of the University, and to offer our students richly varied disciplines, perspectives, viewpoints, and ways of knowing and learning.