Postdoctoral Position:
Development of Scanning Four-Probe Microscope
at Harvard University

Applications are invited for a postdoctoral fellow to develop a novel scanning 4-probe microscope (S4PM), as funded by an NSF Major Research Instrumentation award. The S4PM should operate at low temperature and high field, and allow flexible in-situ exchange of a variety of complementary probes, including scanning tunneling microscopy, atomic force microscopy, scanning gate, and diamond NV. The completed S4PM will be housed in Harvard’s Center for Nanoscale Systems (CNS), and will be available for numerous interdisciplinary projects including characterization of quantum materials, assembly of atomic-scale devices from electrical to bio-engineering, and search for new fundamental excitations and phases of matter.

The successful candidate will have extensive experience in cryogenic scanning probe microscopy and equipment development. The candidate should demonstrate excellent scientific motivation, leadership, and communication skills.

The initial 12-month term of employment is normally renewable for two additional years. Upon successful completion of the S4PM, it is anticipated that the postdoctoral position may be extended into a long-term staff position funded by CNS user fees.

Email CV and statement of research interests and experience to Prof. Jennifer Hoffman. Please also have at least one recommender send a detailed letter directly to jhoffman@physics.harvard.edu. Review of applications will begin immediately and continue until the position is filled.

Harvard is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions or any other characteristic protected by law.

Job posted: Nov 11, 2018