

Postdoctoral Scholar Position in Near-Field Optics of 2D-materials

Applications are sought for a postdoctoral scholar position either in **theoretical** near-field physics of surface polaritons or in **experimental** sSNOM characterization of 2D-materials. Successful candidate will work with Professor Slava V. Rotkin at the Materials Research Institute and the Engineering Science and Mechanics departments, (s)he is expected to have a minimum of three years of experience in theory of physics of polaritons or in experimental near-field microscopy, respectively, and to be able to independently run research projects. Successful candidate will join a group working on nanoscale optical characterization of 2D-materials using the custom-built Neaspec instrument and should be willing to collaborate on active projects.

Solid expertise in physics of polaritons (theoretical position) or sSNOM operation (experimental position) is required; additional expertise in the following areas is welcome (but not a requirement) – advanced optical characterization and quantum optics, quantum information applications, near-field instrumentation development, and other scanning probe techniques. Strong analytical and programming skills is a plus.

Candidates should have a Ph.D. in physics or another related field and, ideally, at least some post-graduate experience; several relevant publications in high-impact factor journals and other records demonstrating capability to conduct above-mentioned work; and dedication to academic work and motivation to develop in this area. A successful candidate is expected to perform either theoretical or experimental work, interact daily with graduate and undergraduate students, write papers and participate in research projects, build her/his own expertise, and prepare for the future career. This is a fixed-term appointment funded for one year from date of hire with excellent possibility of re-funding.

To review the Annual Security Report which contains information about crime statistics and other safety and security matters and policies, please go to police.psu.edu/annual-security-reports, which will also explain how to request a paper copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

For more information, please contact:

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