

Postdoctoral Position:

Multi-Dimensional Spectroscopies of Quantum Matter

Summary:

We are seeking outstanding candidates for an experimental postdoctoral position in the [Nonlinear Optics of Quantum Matter Lab](#) at Brookhaven National Laboratory (BNL). The successful candidate will focus on developing and performing ultrafast optical spectroscopies of quantum materials, primarily so-called ‘multi-dimensional spectroscopies’ ranging from the terahertz to optical frequency ranges. Studies of interest include strongly correlated electron systems, topological materials, and low-dimensional nanostructures, both in equilibrium and in light-induced non-equilibrium states. We also welcome new directions of interest to the candidate. Access to extensive user facilities at BNL will be available, including the adjacent Center for Functional Nanomaterials.

Required Skills:

Expertise in one or more of the following areas: femtosecond optical spectroscopy, terahertz spectroscopy, laser physics. Strong background in condensed matter physics.

Education:

Ph.D. in a relevant field completed within the past 5 years or soon to be completed.

Location:

Experiments will be conducted in a research laboratory located in the modern Interdisciplinary Science Building (pictured below). Brookhaven National Laboratory can be found on Long Island, New York. The lab is an hour train ride from Manhattan, and one can therefore choose to live in either an urban or more suburban location.

Application and Starting Date:

Interested candidates can directly contact Albert Liu (aliu1@bnl.gov). Starting date in late 2025/early 2026 is flexible.

Note:

For more information, please see the group website at nooqm-lab.org.

