



Theory postdoc position in topological quantum materials Los Alamos National Laboratory, USA

What You Will Do

The Group of Condensed Matter and Complex Systems in the Theoretical Division of Los Alamos National Laboratory (LANL) has immediate postdoctoral position openings in the area of theoretical study of topological quantum materials. The opened positions provide an opportunity to pursue fundamental studies of the role of electronic correlation effects and topology in quantum materials.

What You Need

Minimum Job Requirements:

The successful candidate must have a strong skill, with an excellent scientific record of publications, in condensed matter theory and modeling of one or more aspects of topological properties (including topological superconductivity), two dimensional materials and their heterostructures, quantum Hall systems, and/or strong correlation effects in quantum materials. Preference will be given to candidates with experience in using quantum many-body approaches to unravel the interplay between strong correlations and topology in quantum materials. The ability to work creatively and independently, as a part of a diverse team, is important. Strong communication and language skills, as evidenced by publications and cover letter, are required.

Education: Candidates must have a Ph.D. in theoretical condensed matter or quantum materials physics (completed within the last 5 years).

Notes to applicants: Please send a resume, publication list, research interests, a brief statement of future plans and the names of three references to:

Dr. Shizeng Lin

Email: szl@lanl.gov,

Phone: +1-505-665-8794

Review of applications will begin immediately and will continue until the position is filled. The position has an initial appointment of two years. Additional information on salary ranges and other benefits can be found online at <https://www.lanl.gov/careers/career-options/postdoctoral-research/index.php?source=globalheadernav>.

Additional Details:

New-Employment Drug Test: The Laboratory requires successful applicants to complete a new-employment drug test and maintains a substance abuse policy that includes random drug testing.

Candidates may be considered for a Director's Postdoc Fellowship and outstanding candidates may be considered for the prestigious Richard P. Feynman, Darleane Christian Hoffman, J. Robert Oppenheimer, or Frederick Reines Distinguished Postdoc Fellowships. For more information about the Postdoc Program, go to <https://www.lanl.gov/careers/career-options/postdoctoral-research/index.php> .

Equal Opportunity:

Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regards to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to applyhelp@lanl.gov or call 1-505-665-4444 option 1.