Postdoctoral Position in Moire Systems

POSITION OVERVIEW
Position title: Postdoctoral Position
Percent time: Up to three years at 100%.
Anticipated start: 7/1/2024 or earlier

APPLICATION WINDOW
Open November 1st, 2023 through March 1st, 2024 at 11:59pm (Pacific Time)

POSITION DESCRIPTION
Postdoctoral Fellowship
Department of Mathematics
University of California, Berkeley
Berkeley, CA 94720

The Department of Physics at the University of California, Berkeley invites applications for a Postdoctoral Scholar position supervised by Professor Lin Lin, focusing on the intricacies of moire systems, such as magic angle twisted bilayer graphene (MATBG). The primary research areas include:

- Interacting electrons of moire systems.
- Ab initio description and quantum embedding aspects of moire systems.
- Electron phonon coupling of moire systems.

The selected Postdoctoral Scholar will be expected to:

- Develop, implement and refine methods pertinent to the research areas listed above and critically analyze their implications and outcomes. Numerical algorithms should be suitable for open-source distribution to the scientific community.
- Publish research findings in peer-reviewed journals or conferences.
- Disseminate research results to the broader scientific community in conferences and seminars.
- Visit collaboration sites such as Ecole des Ponts, Harvard, University of Minnesota, and University of Texas, Austin, enhancing the breadth of the research and forging deeper interdisciplinary connections. Participate actively in joint research activities, and collaboration workshops.
- Collaborate and integrate with group members. When applicable, mentor junior members of the group.

Preferred Start Date: 7/1/2024 or earlier. The primary tenure is for two years, but there exists a potential for an extension of an additional year, contingent on satisfactory performance evaluations and fund availability. The screening of applications will commence from December 1, 2023, and will be ongoing until the ideal candidate is identified. The compensation package offered is competitive in the industry standards.

QUALIFICATIONS
Basic qualifications (required at time of application)
Applicants must have completed all PhD (or equivalent international degree) requirements, except the dissertation, at the time of application. Candidates must have a strong publication record in moire systems.

Additional qualifications (required at time of start)
A PhD (or equivalent international degree) is required by the start date of the job.

Preferred qualifications
Preference will be given to candidates at the early stage of their careers, and to candidates with a PhD (or equivalent international degree). Candidates with a PhD in theoretical and computational physics or related areas are preferred.

APPLICATION REQUIREMENTS
Document requirements
Cover Letter (e.g. AMS style)
Curriculum Vitae - Your most recently updated C.V.
List of Publications
Statement of Research
Reference requirements
3 letters of reference required

Apply link: 
Help contact: recruit@math.berkeley.edu