Postdoctoral Position in Quantum Algorithms

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 Mathematics at the University of California, Berkeley invites applications for a Postdoctoral Scholar position supervised by Professor Lin Lin. The primary role will be in the development and analysis of quantum algorithms, particularly focusing on:

- Eigenvalue problems.
- Open quantum systems.
- Non-Hermitian quantum dynamics.

While the primary focus is on the areas listed, there is flexibility to work on other topics related to quantum algorithms. Collaborative opportunities abound, as the projects involve active interactions with mathematicians, physicists, and computer scientists.

The selected Postdoctoral Scholar will be expected to:

- Develop novel quantum algorithms and analyze the algorithmic complexity of new computational approaches.
- When applicable, implement algorithms numerically, ensuring they are suitable for open-source distribution to the scientific community.
- Publish research results in peer-reviewed journals / conferences.
- Disseminate research results to the broader scientific community in conferences and seminars.
- Collaborate and integrate with group members. When applicable, mentor junior members of the group.

The preferred start date is 7/1/2024 or earlier. The initial appointment is for two years, with the possibility of renewal for an additional year based on satisfactory performance evaluations and the availability of funds. Applications will be reviewed starting December 1, 2023, and will continue until the position is filled. The offered salary is competitive.

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 quantum algorithms.

Additional qualifications (required at time of start)
A PhD (or equivalent international degree) is required by the start date of the job. The PhD degree is not restricted to Mathematics or Applied Mathematics.

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).

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