

## Quantum processors with Neutral Atom Array

### Open positions in experimental quantum physics

We are developing an ambitious project on quantum processors based on a neutral atom array (NAA). NAA platforms offer properties that make them promising candidates for quantum processors (QP), including long coherence times and operational systems with large numbers of atoms. The recent demonstration of high-fidelity gates, implementation of error corrections codes, and computation of quantum algorithms have positioned NAA-based QP at the forefront in the development of quantum computing hardware.

We are looking for highly motivated young scientists to join our team in this very promising and competitive field of research. The candidate should have at least a degree in Physics with ideally a successful experiment in related research areas. The selected candidate will be offered a position, according to their experience and expectations, either at the National University of Singapore (NUS) or Nanyang Technological University (NTU).

The open positions with the job description are:

- **One senior research fellow.** The senior research fellow will supervise a team of 6-9 researchers working on several experimental platforms. Its main objective will be to implement the scientific program and coordinate the technical efforts among the platforms.
- **Three research fellows.** Each research fellow will be in charge of an experimental platform. Its role will be to proceed with the necessary technical and scientific developments on the experimental setup. He or she will organize the daily work, and supervise the team attached to the experiment. He or she will coordinate data taking and analysis.
- **Three research assistants.** The research assistant will support the experimental works, participate in the development of the experimental infrastructures and assist in data taking and analysis.
- **Three PhD students.** Each PhD student will be attached to an experimental platform. In collaboration with a theory team, the PhD student will work on the scientific objectives and will implement them in the experiment.

For applications or further information, please contact [David.Wilkowski@ntu.edu.sg](mailto:David.Wilkowski@ntu.edu.sg)