The Division of Materials Science and Engineering at the Ames Laboratory, a Department of Energy (DOE) National Laboratory affiliated with Iowa State University, is seeking a qualified Postdoctoral Research Associates to perform research in the area of quantum information and computational approaches to strongly correlated materials. The focus is on algorithmic development for and implementation of correlated quantum materials simulations such as hybrid quantum-classical methods. The work will be performed as part of a research team led by Y. Yao and P. P. Orth. The position is funded by a DOE Quantum Information Science (QIS) initiative in materials research.

The successful candidate will have excellent verbal and written communication skills, and will be able to communicate effectively to a wide variety of audiences. The individual must be able to work effectively with team members.

Required Qualifications: Ph.D. must be completed prior to start date.

Preferred Qualifications: 1. Ph. D. in condensed matter physics, computational physics, materials science, quantum chemistry or related areas. 2. Demonstrated experience in condensed matter theory of correlated materials, preferably using quantum information and computation approaches, development of algorithms for quantum simulation. 3. Demonstrated experience with analytic or numeric many-body techniques suitable for correlated materials. 4. Research experience in the field of strongly correlated materials. 5. Programming experience in Python, Fortran90+, C/C++ and/or any of the quantum programming languages.

Interested applications should apply prior to May 15, 2020 with 1) a cover letter detailing specific experience; 2) current C.V.; and 3) contact information for three (3) references at the following link: https://isu.wd1.myworkdayjobs.com/en-US/IowaStateJobs/job/Ames-IA/Postdoctoral-Research-Associate---Ames-Laboratory_R2277

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