The Departments of Mathematics and Computer Science in the College of Science at Purdue University invite applications for up to five positions in Quantum Information Science (QIS) to begin August 2020. These positions will be at the assistant/associate professor level based on scholarly record. When appropriate, successful candidates may be considered for joint and interdisciplinary appointments across the College.

QIS is at the frontier of several traditional research disciplines including applied math and computer science, information theory, condensed matter physics, atomic, molecular, and optical physics, and chemistry. QIS strives to harness the unusual quantum mechanical properties of superposition and entanglement to provide breakthrough advances for computing, secure communications, and novel device functionalities. As such, QIS is part of a large-scale interdisciplinary hiring effort across key strategic areas in the College of Science—Purdue’s second-largest college, comprising the physical, computing, and life sciences—these positions come at a time when the College is under new leadership and with multiple commitments of significant investment.

The College of Science is especially seeking to enhance our existing strengths in research at the interface within Computer Science and Math through strategic hiring of creative scientists to be part of the cutting-edge interdisciplinary environment provided by Purdue University. Successful candidates will have research interests that can build a comprehensive suite of capabilities in quantum algorithm research, information theoretic analysis, topological quantum computing, chemical physics, and quantum materials, experimental and/or theoretical quantum computing with superconducting qubits, spins in semiconductors and other condensed matter systems, cold atomic ions, Rydberg atoms, photonic systems, or quantum materials.

**Qualifications:** Candidates must have a PhD in mathematics, computer science, or a closely related field, with outstanding credentials in research related to QIS, an excellent track record of publications and potential for developing a vibrant research program, as well as a strong commitment to excellence in teaching. Successful candidates are expected to develop an outstanding research program supported by extramural funding and teach courses at the undergraduate and/or graduate level.

**The Departments and College:** The Departments of Computer Science and Mathematics have over 100 tenured and tenure-track faculty, more than 300 graduate students, and over 500 undergraduate students between them. Over the last 5 years the two departments have hired more than 30 faculty members and made significant investments in key areas of discovery. The College and the Departments have launched initiatives in new emerging areas, such as Data Science and Quantum Information Science, and committed the resources necessary to make the new growth impactful. For more information, see [https://www.cs.purdue.edu/](https://www.cs.purdue.edu/) and [http://www.math.purdue.edu/](http://www.math.purdue.edu/). Purdue is one of the nation’s leading land-grant universities, with an enrollment of over 41,000 students primarily focused on STEM subjects. For more information, see [https://www.purdue.edu/purduemoves/initiatives/stem/index.php](https://www.purdue.edu/purduemoves/initiatives/stem/index.php).

**Application Procedure:** Applications must be submitted to [https://career8.successfactors.com/sfcareer/job reqcareer?jobId=8411&company=purdueuniv&username=](https://career8.successfactors.com/sfcareer/job reqcareer?jobId=8411&company=purdueuniv&username=) and must include (1) a cover letter (including a discussion of diversity efforts as indicated below), (2) a complete curriculum vitae with publication list, (3) a brief statement of present and future research plans, and (4) a statement of teaching philosophy. In addition, candidates should arrange for at least 4 letters of reference, one of which discusses the candidate’s teaching qualifications, to be sent to qissearch@purdue.edu. Questions regarding the position and search should be directed to chgreene@purdue.edu. Applications completed by December 15, 2019 will be given full consideration, although the search will continue until the position is filled.

Purdue University’s Departments of Computer Science and Mathematics are committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. A background check will be required for employment in this position.
Purdue University is an EEO/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.