The BNL Physics Department has an opening for two postdoctoral research associates in the Nuclear Theory Group. In this role, the successful candidate will conduct research in quantum information science for high energy nuclear physics and related areas. The successful candidate will also be a member of the inter-disciplinary, multi-institutional Co-Design Center for Quantum Advantage (C2QA) at BNL, one of five DOE National Quantum Information Science Research Centers, https://www.bnl.gov/quantumcenter/.

The successful candidate will work under the direction of Peter Petreczky, Group Leader of the Nuclear Theory Group. This position has a high level of interaction with an international and multicultural scientific community.

Essential Duties and Responsibilities:

Perform research on QIS problems in high energy nuclear and particle physics. Organize and participate in seminars, meetings, and workshops. Publish research results and conduct presentations at meetings and conferences.

Position Requirements

Required Knowledge, Skills, and Abilities:

- PhD degree in Theoretical Nuclear or Elementary Particle Physics
- Prior research experience in quantum information science
- Proficient in and knowledge of perturbative and non-perturbative methods in quantum field theory
- Strong computational skills
- Ability to prepare and deliver oral presentations, as well as write articles in scientific journals
- Clear and concise verbal/written/presentation communication skills

Preferred Knowledge, Skills, and Abilities:

- Knowledge of quantum information science for high energy physics

Other Information:

BNL policy requires that after obtaining a PhD, eligible candidates for research associate appointments may not exceed a combined total of 5 years of relevant work experience as a post-doc and/or in an R&D position, excluding time associated with family planning, military service, illness or other life-changing events.

Initial two (2) year term appointment subject to one (1) year renewal contingent on funding and performance.

May require domestic and international travel.

In addition, to submitting your curriculum vitae through “BNL Careers,” please also arrange to have three letters of recommendation from your referees sent to PhysicsLOR@bnl.gov. Please be sure to reference the Job ID number in the e-mail subject line. A review of the applicants will start on December 20th, 2021 and continue until the positions are filled.

At Brookhaven National Laboratory, we believe that a comprehensive employee benefits program is an important and meaningful part of the compensation employees receive. Our benefits program includes, but is not limited to:

- Medical, Dental, and Vision Care Plans
- Flexible Spending Accounts
- Paid Time-off and Leave Programs (vacation, holidays, sick leave, paid parental leave)
- 401(k) Plan
- Flexible Work Arrangements
- Tuition Assistance, Training and Professional Development Programs
- Employee Fitness/Wellness & Recreation: Gym/Basketball Courts, Weight Room, Fitness Classes, Indoor Pool, Tennis Courts, Sports Clubs/Activities (Basketball, Ping Pong, Softball, Tennis)

Brookhaven Science Associates requires proof of a COVID-19 vaccination for all employees. Proof of full vaccination as recognized by the CDC and/or WHO, inclusive of the two-week waiting period, is required either by November 17, 2021 or at the start of your employment if after November 17, 2021.

Brookhaven National Laboratory (BNL) is an equal opportunity employer that values inclusion and diversity at our Lab. We are committed to ensuring that all qualified applicants receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual
BNL takes affirmative action in support of its policy and to advance in employment individuals who are minorities, women, protected veterans, and individuals with disabilities. We ensure that individuals with disabilities are provided reasonable accommodation to participate in the job application or interview process, to perform essential job functions, and to receive other benefits and privileges of employment. Please contact us to request accommodation.

*VEVRAA Federal Contractor

Brookhaven employees are subject to restrictions related to participation in Foreign Government Talent Recruitment Programs, as defined and detailed in United States Department of Energy Order 486.1A. You will be asked to disclose any such participation at the time of hire for review by Brookhaven. The full text of the Order may be found at: https://www.directives.doe.gov/directives-documents/400-series/0486.1-BOrder-a/@images/file