Postdoc position: Quantum Computing Applications in Nuclear Engineering
Rensselaer Polytechnic Institute

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Job Title	Postdoc position: Quantum Computing Applications in Nuclear Engineering
Department	Mechanical, Aerospace and Nuclear Engineering https://mane.rpi.edu/
Institution	Rensselaer Polytechnic Institute Troy, New York
Date Posted	Aug. 31, 2025
Application Deadline	Oct. 15, 2025
Position Start Date	Oct. 20, 2025
Job Categories	Post-Doc
Academic Field(s)	Engineering - Other Computer Science Computer Engineering Nuclear
Apply Online Here	https://careers.rpi.edu/en-us/job/495401/computational-science-engineering-researchers-2025-26
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Job Description

Rensselaer Polytechnic Institute (RPI), the first university globally to host an IBM utility-scale quantum computer on campus, invites applications from visionary postdocs to join a pioneering research initiative at the intersection of quantum computing and nuclear engineering. This is a rare opportunity to shape the future of energy systems through transformative, cross-disciplinary innovation.

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In April 2024, RPI and IBM unveiled the world's first-ever IBM Quantum System One on a university campus. Located in the historic Voorhees Computing Center Chapel, the IBM Quantum System One has significantly enhanced educational and research opportunities for RPI, as well as with other academic institutions and organizations across the Capital Region of New York. Faculty, students, research scientists, and collaborators accessing the system will advance quantum computing research, including the search for quantum algorithms that could fundamentally change the computing field.

We seek an accomplished and forward-thinking researcher whose expertise and ambition align with RPI's commitment to advancing quantum-enabled solutions in reactor physics, nuclear materials modeling, and nuclear data science. The successful candidate will have the opportunity to engage within a dynamic ecosystem of quantum scientists from RPI, IBM, nuclear engineers, and computational theorists, leveraging access to one of the world's most advanced quantum platforms to address challenges of national and global significance.

Expected hiring range: $ 65,000 – $74,000 per year.

Pay transparency disclosure: The selected candidate's salary will be determined based on factors that include the available budget, internal equity, and the final candidate's qualifications, experience, education, and other job-related credentials. This hiring range is provided as Rensselaer's good faith estimate of the expected hiring range at the time of posting.

For more information contact: Prof. Yaron Danon (danony at rpi.edu)

EEO/AA Policy

Rensselaer is committed to the cultivation of a community that is welcoming, inclusive, and above all values learning. We welcome candidates who bring a variety of perspectives to Rensselaer's work and campus communities.   Rensselaer Polytechnic Institute is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or gender identity, national origin, disability status, protected veteran status, or other characteristic protected by law.

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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