

Postdoctoral Researcher In Theoretical Quantum  
Information and Quantum Optics at the Interface with  
Gravity  
Stevens Institute of Technology

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**Job Title** Postdoctoral Researcher In Theoretical Quantum Information  
and Quantum Optics at the Interface with Gravity

**Department** Physics

**Institution** Stevens Institute of Technology  
Hoboken, New Jersey

**Date Posted** Oct. 10, 2024

**Application Deadline** Open until filled

**Position Start Date** Available immediately

**Job Categories** Post-Doc

**Academic Field(s)** Physics - General

Physics - Atomic/Molecular/Optical/Plasma

**Job Website** [https://stevens.wd5.myworkdayjobs.com/External/job/Hoboken-NJ---Main-Campus/Postdoctoral-researcher-in-theoretical-quantum-information-and-quantum-optics-at-the-interface-with-gravity\\_RQ28624](https://stevens.wd5.myworkdayjobs.com/External/job/Hoboken-NJ---Main-Campus/Postdoctoral-researcher-in-theoretical-quantum-information-and-quantum-optics-at-the-interface-with-gravity_RQ28624)

**Apply By Email**

**Job Description**

The Department of Physics in the Charles V. Schaefer, Jr. School of Engineering and Science at Stevens Institute of Technology (Stevens) invites applications for a postdoctoral position in theoretical physics. The postdoc will work in the group of Assistant Professor Igor Pikovski.

We are looking for candidates to work on theoretical aspects of the interface between quantum information theory and gravity. The research will focus on fundamental and experimental signatures of gravity in quantum optical systems, quantum sensing, and on low-energy signatures of quantum

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gravity. Applicants should have earned a Ph.D. in theoretical physics and have research experience in the fields of quantum information theory, quantum optics, AMO physics, gravitational waves, and/or fundamental theory.

### Key Responsibilities

- Conduct research in the interface between quantum information theory and gravity.
- Investigate fundamental and experimental signatures of gravity in quantum optical systems and quantum sensing.
- Explore low-energy quantum gravity effects in various quantum systems.
- Contribute to the vibrant quantum research environment within the Stevens Department of Physics and the Center for Quantum Science and Engineering (CQSE).

### Qualifications

- Ph.D. in Theoretical Physics or a closely related field.
- Strong publication record in relevant research fields is desirable.

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### Preferred Skills

- Expertise in quantum sensing and quantum optical systems.
- Ability to work collaboratively in a research team and with external experimental groups.
- Excellent written and verbal communication skills.

The position will be for 2 years, with the possibility of extension depending on performance and funding availability. Reviews will begin on October 21st and continue until the position is filled. Expected starting date is early 2025.

To apply, please submit:

- Cover letter
- CV including a publication list
- A research experience summary (2-4 pages)
-

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Contact information for 2-3 references

For any questions and inquiries, please contact Professor Igor Pikovski: [pikovski@stevens.edu](mailto:pikovski@stevens.edu). Current research activities in the Pikovski group can be found at <https://www.pi-quantum.com/research>. Research projects may also include possibilities for collaborations with leading experimental groups in AMO physics. The Stevens physics department hosts active research groups in diverse areas of quantum science, such as in quantum engineering, quantum open systems and quantum foundations, as well as a Center for Quantum Science and Engineering (CQSE).

## Department

Physics

## General Submission Guidelines:

Please submit an online application to be considered a candidate for any job at Stevens. Please attach a cover letter and resume with each application. Other requirements for consideration may depend on the job.

## Still Have Questions?

If you have any questions regarding your application, please contact [Jobs@Stevens.edu](mailto:Jobs@Stevens.edu).

## EEO Statement:

Stevens Institute of Technology is an Equal Opportunity Employer. Accordingly, Stevens adheres to an employment policy that prohibits discriminatory practices or harassment against candidates or employees based on legally impermissible factor(s) including, but not necessarily limited to, race, color, religion, creed, sex, national origin, nationality, citizenship status, age, ancestry, marital or domestic partnership or civil union status, familial status, affectional or sexual orientation, gender identity or expression, atypical cellular or blood trait, genetic information, pregnancy or pregnancy-related medical

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conditions, disability, or any protected military or veteran status.

Stevens is building a diverse faculty, staff, and student body and strongly encourages applications from people of all backgrounds. Stevens is a federal contractor under the Vietnam Era Veterans' Readjustment Assistance Act (VEVRAA) and the Rehabilitation Act of 1973, as well as other federal statutes.

### Contact Information

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

### Contact