

Job Title	Post-doctoral researcher
PVN ID	NY-2311-005990
Category	Research
Location	NYC COLLEGE OF TECHNOLOGY
Department	Physics
Status	Full Time
Annual Salary	\$60,000.00 - \$75,000.00
Hour(s) a Week	35
Closing Date	Dec 04, 2023 (Or Until Filled)

General Description

The New York City College of Technology (City Tech) of the City University of New York (CUNY) is a comprehensive college of over 17,000 students in downtown Brooklyn, offering associate and baccalaureate degree in technology and health related degree programs, other career-oriented degrees and liberal arts transfer degrees in its Schools of Arts and Sciences, Technology and Design, and Professional Studies. We are the largest public college of technology in New York State and exceptional in that we go beyond traditional class offerings to create a high-tech, hands-on educational experience for our students, to prepare them for a rapidly changing world.

City Tech is recruiting a full-time postdoctoral fellow to perform experimental research in light matter interactions with applications to quantum information. This work will be a part of mixed-method basic research activities in quantum communication. The successful candidate will be expected to use their expertise in materials and device fabrication and optical characterization to develop cutting-edge technology.

The position starts on Jan 1, 2024 (or mutually agreed upon) and is expected to span 12-month time frame. Further extension is dependent on funding availability, performance and research interests aligned with City Tech. The candidate must be based in the metro NYC area.

Other Duties

Specific responsibilities:

- Accomplish scientific research in two-dimensional materials and their interaction with single photons for information transduction applications;
- Design and execute experiments to characterize materials and devices;
- Analyze data and provide technical reports on experimental results;
- Collaborate with other team members in developing research strategies;

- Report the scientific results in academic papers and talks.

Qualifications

- This position requires a Ph.D. in Physics, Materials Science, Chemistry, Chemical Engineering or a related field with a strong background in device fabrication, nanofabrication, materials synthesis and characterization.
- The successful candidate must have a demonstrated record of accomplishment in the development and optical characterization of new materials and/or devices and have a strong commitment to research excellence.
- The ideal candidate will be able to work independently as well as collaboratively in a team environment.
- We are seeking a highly creative and innovative individual with excellent communication and interpersonal skills.