

Job Title	Postdoctoral Fellow
PVN ID	QC-2403-006167
Category	Research
Location	QUEENS COLLEGE
Department	Physics
Status	Full Time
Annual Salary	\$56,484.00 - \$66,228.00
Hour(s) a Week	35
Closing Date	Mar 31, 2025 (Or Until Filled)

General Description

This is a postdoctoral position in the field of theoretical biophysics. The list of projects spans from theoretical support to experimental groups in the department of biology, to computational projects, to theoretical physics work inspired by biological phenomena - such as a stochastic process involved in intracellular transport, calculation of escape rates (or mean first passage times) and probabilities, fluctuations of particles driven by a combination of several types of noises, development of an effective medium theory for diffusion on cytoskeletal networks, nonequilibrium dynamics of active particles in biological context. There are opportunities for applied projects in close collaboration with experimentalists, computational work, or pure paper-and-pencil theory.

Other Duties

Conduct scientific research in the area of theoretical biophysics

Qualifications

Theoretical physics skill set. Computational skills area also preferable.

Other preferred skills: Experience of theoretical work with stochastic processes, including calculations of escape rates or mean first-passage times; background knowledge of cellular biology; experience with simulations of stochastic processes is helpful. However, these are preferences, so if you're interested in the topic of bio-transport, have a strong mathematical or theoretical physics background, and have interest in applying ideas from physics to biological settings, please feel free to apply.