

Job Title	Postdoctoral Fellow - Structural Biology
PVN ID	RC-2207-004956
Category	Research
Location	CUNY-ADVANCED SCIENCE RESEARCH CENTER
Department	ASRC-Structural Biology Initiative
Status	Full Time
Salary	Depends on qualifications
Hour(s) a Week	35
Closing Date	Apr 30, 2023 (Or Until Filled)

General Description

The Keedy Lab at the CUNY Advanced Science Research Center in New York City has a **Postdoctoral Scholar position available immediately**. We seek applications from individuals with experience in computational biology, computer science, software development, biochemistry, biophysics, biology, chemistry, or a related area. The job description and level are dependent on the skills, experience, and career goals of the candidate.

Research: The Keedy Lab is interested in the interplay between protein sequence, conformational heterogeneity, and biological function. Using a unique combination of avant-garde computational and biophysical approaches, we aim to elucidate the conformational ensembles of proteins and to understand how they are shifted by perturbations, including temperature, pressure, mutations, ligands, protein:protein interactions, to control biological function. More details can be found at our lab website (<https://keedylab.org/>).

The successful applicant for this open position will join these efforts by developing and using new computational approaches to exploit families of related structures, extract hidden signatures of conformational heterogeneity, and explore how changes to amino acid sequence rewire protein allosteric networks.

Location: The **CUNY Advanced Science Research Center** (<https://asrc.gc.cuny.edu/>) is a cutting-edge research institution, perched atop a hill overlooking Harlem in New York City. Alongside its sister research building, the City College of New York's Center for Discovery and Innovation, the ASRC sits in an oasis of green amidst upper Manhattan. The ASRC Structural Biology Initiative features eight tenure-track and research-track faculty members, pursuing diverse research problems using X-ray diffraction, mass spectrometry, cryo-EM, NMR, solution biophysics, and advanced microscopy. The ASRC is immediately adjacent to the New York Structural Biology Center, a consortium of CUNY and eight other New York academic institutions with world-class facilities, and is just 70 miles from Brookhaven National Laboratory, featuring the National Synchrotron Light Source II – the brightest synchrotron light source in the United States.

Application Information

Please submit application materials in PDF format. Include a resume or CV detailing your qualifications. You may also include a brief cover letter describing your interest in the position.

Other Duties

Other duties may include:

- Developing new computational tools for analyzing protein structures
- Working with labmates on joint side projects
- Collaborating with other research groups at the ASRC, elsewhere in New York City, or worldwide
- Publishing articles describing the research and developed software
- Presenting at workshops and meetings

Qualifications

Minimum Qualifications

- A PhD from an accredited institution in Biochemistry/Computational Biology/Computer Science
- Familiarity with the Unix command line

Preferred Qualifications

- Coursework and/or experience in X-ray crystallography or structural biology
- Coursework and/or experience in Python, R, or another programming language
- Experience using standard software engineering tools including source code control (such as Git)