Job Title	Postdoctoral Research Scientist in Computational Biophysics
PVN ID	HC-1809-002709
Category	Research
Location	HUNTER COLLEGE
Department	Computer Science
Status	Full Time
Annual Salary	$48,000.00 - $80,000.00
Hour(s) a Week	35
Closing Date	Jan 09, 2019 (Or Until Filled)

General Description

Department of Computer Science at Hunter College and The Center for Translational and Basic Research (CTBR) at The City University of New York are seeking a Postdoctoral Research Scientist in the fields of Computational Biophysics and Molecular Modeling. The candidate is expected to develop new methods for protein structure prediction, protein-ligand docking, coarse-grained molecular dynamics, and metadynamics by integrating machine learning and biophysics, as well as apply state-of-the-art computational tools to drug discovery, precision medicine, and antibody design. The Postdoctoral Scientist has the opportunity on developing or enhancing skills in statistics, machine learning, and big data analytics. Our multiple NIH funded projects involve close collaborations with Weill Cornell Medical College, University of Virginia, Columbia University, Rutgers University, and Simon Fraser University.

Other Duties

Candidates may need to supervise graduate and undergraduate students, collaborate with experimental and clinical laboratories, and write grant applications.

Qualifications

Minimum requirements: Candidates must have a Ph.D. in biophysics, bioinformatics, computational chemistry, and/or related fields. The candidate also must have a strong background and experience in one or more of the following areas: protein sequence analysis, protein structure analysis and modeling, molecular dynamics simulation; strong programming skills using Python, Java, or C++, and familiarity with computing environments such as MATLAB and R; effective communication skills; self-motivated and independent.

Preferred qualifications: Expertise and strong publication record in one or more areas related to machine learning, statistics, or systems biology.