
Job Title	Postdoctoral Scientist in Computational Biology, Bioinformat
PVN ID	HC-2212-005313
Category	Research
Location	HUNTER COLLEGE
Department	Computer Science
Status	Full Time
Annual Salary	\$54,000.00 - \$65,000.00
Hour(s) a Week	35
Closing Date	Mar 01, 2023 (Or Until Filled)

General Description

Computer Science at The City University of New York and Weill Cornell Medical College of Cornell University are seeking a joint Postdoctoral Research Scientist in the fields of computational biology, bioinformatics, and biophysics,. The candidate is expected to develop new computational methods for the multi-scale modeling of drug actions and genotype-phenotype associations as well as apply state-of-the-art computational tools to omics data analysis and integration, drug discovery and precision medicine. Depending on candidate's interests and backgrounds, specific projects may include but not limited to: predicting genome-wide protein-ligand interactions, integrating and analyzing multiple omics data for drug target identification, identifying individualized drug response biomarkers, predictive modeling of perturbation genomics, drug repurposing, and any other open questions in systems pharmacology. The Postdoctoral Scientist has the opportunity on developing or enhancing skills in statistics, deep learning, and big data analytics. Our multiple NIH and NSF funded projects involve close collaborations between multiple academic institutes and pharmaceutical companies. We provide you with the ideal research environment to advance your career: freedom to pursue your interests, interaction across disciplines, and collaboration with pharmaceutical industries.

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 bioinformatics, computational biology, statistics, mathematics, biophysics, computer science, and/or related fields. The candidate also must have a strong

background and experience in one or more of the following areas: genomics, gene expression data analysis, systems biology, chemoinformatics, biophysics, machine learning, or multi-variable statistics; strong programming skills using Python or R, and familiarity with computing environments such as GPU clusters; effective communication skills; self-motivated and independent.

Preferred qualifications: Expertise and strong publication record in one or more areas related to single cell omics, multi-modal learning, self-supervised learning, semi-supervised learning, transfer learning, deep learning, causal learning, or natural language processing.