The Rockefeller University is the world's leading biomedical research University. Our groundbreaking discoveries in basic and clinical research are transforming medicine. We share a singular commitment to advancing science for the benefit of humanity. Our collaborative culture drives each of us to achieve a higher level, fueling the breakthroughs for which we are known.

We seek a Bioinformatics Specialist to join the newly established Laboratory of Chemical Immunology and Proteomics. As a founding member of the Laboratory, the Bioinformatics Specialist will have the opportunity to work directly with the Head of the Laboratory establishing the organization, design, and culture of the Laboratory.

The Position

The Bioinformatics Specialist will have evolving responsibilities with an overall objective of facilitating proteomics workflows for data processing and production of high-quality data. The Bioinformatics Specialist will have extensive opportunities to gain new skills through interactions with colleagues and collaborators in other labs, as well as the opportunity to develop an independent research project within the scope of the Laboratory's interests, under the mentorship of the Head of Laboratory.

Responsibilities:

- Supporting general laboratory operations through the augmentation and development of data processing workflows for large proteomics datasets
- Developing and applying data analysis and visualization tools, including integrative analyses of omics data
- Generating a web-based data portal for large proteomics dataset storage, searching, and visualization

If inclined, the Bioinformatics Specialist will also have the opportunity to work with the Head of Laboratory, graduate students, and postdocs on wet lab work, including tissue culture, flow cytometry, mass-spectrometry, and standard molecular biology to support ongoing projects.

You Have / You Are

- A Master's degree in computational biology, computer science, bioinformatics, biostatistics, mathematics, or a related field
- At least one year of work experience in large scale data analysis in proteomics

- Skilled in R, Python, and other relevant computer languages
- Working knowledge of statistical methods and data analysis methods
- The ability to work independently as well as part of a team in a fast-paced, highly collaborative environment
- Strong organizational, record-keeping, and interpersonal skills
- Excellent critical thinking and analytical skills

Even Better If You Have

- A Ph.D. in computational biology, computer science, bioinformatics, biostatistics, mathematics, or a related field
- At least one year of work experience in large scale data analysis in NGS
- Experience creating and working with web-based databases

The Laboratory of Chemical Immunology and Proteomics

The Laboratory of Chemical Immunology and Proteomics applies synthetic chemistry, chemical biology, and proteomics methods toward the goals of discovering and characterizing (a) novel selective chemical probes that perturb the functions of key proteins regulating immunological and neuroimmunological processes; (b) new mechanisms for small molecule-induced protein degradation; and, more broadly, (c) the pharmacological landscape and signal transduction pathways in immune and neuroimmunological disorders. Achieving these objectives is enhanced through the development of new chemical scaffolds targeting cysteine and other nucleophilic residues. By developing and applying innovative chemical proteomic profiling technologies, we aim to enrich our understanding of the molecular differences between pathologic and physiologic states in immune cells and cells of the nervous system (including microglia and oligodendrocytes, which are implicated in the autoimmune disorder multiple sclerosis). The lab also plans to explore how those differences can be further leveraged from a pharmacological perspective for the development of new therapies that not only target specific immune cell subtypes, but also the defined activation states of these cells. Please see www.vinogradovalab.com for more information.

How to apply

Candidates should submit their resume and cover letter to IRC25635 using this link or email Elizabeth Ventura, Talent Acquisition Associate, at eventura@rockefeller.edu.

Rockefeller University is an Equal Opportunity Employer - Minorities/Women/Disabled/Veterans