Position: Bioinformatics Specialist
Location: The Rockefeller University - New York - NY - USA

Laboratory of Molecular Immunology (Nussenzweig Lab)
Our research aims to understand the rules that govern hypermutation and high-affinity antibody selection, with the goal of creating vaccines for pathogens such as HIV-1. As part of that effort, our laboratory has devised strategies to isolate, analyze, and produce highly potent human antibodies capable of neutralizing multiple HIV strains.

Nussenzweig Lab has isolated broadly neutralizing antibodies from HIV-infected patients whose immune systems had an exceptional ability to neutralize HIV in the blood. In clinical trials conducted at The Rockefeller University Hospital, two of these antibodies interfered with chronic HIV infection, driving the amount of virus in the blood to below detectable levels. And unlike traditional antiretroviral therapy, which requires daily dosing, the antibodies continue to provide protection and treatment for months after they have been administered, suggesting they might lead to long-term control of the virus. This work has helped establish a new paradigm for developing vaccines and therapies for infectious diseases. This paradigm has been extended to other viruses such as hepatitis B and flaviviruses. In response to the COVID-19 outbreak, the lab has extended this research to SARS-CoV-2 and is working to isolate and characterize highly potent neutralizing antibodies from patients who have recovered from the disease.

Job Description
The Bioinformatics Specialist will assist all laboratory researchers by providing effective data analysis, maintaining the existing pipelines, and helping interpret results.

Job Requirements
Bachelor's degree in computational biology, computer science, biological sciences, or other related analytical disciplines. Must have excellent programming skills in at least one scripting language such as Perl, Python, or R. Must be comfortable working in Unix/Linux environments and using the command line. Ability to multitask while working independently and exercising good judgment in terms of meeting deadlines. Ability to maintain well-documented and tested code and analysis results. Must be motivated to learn new technologies, contribute to publications in peer-reviewed journals, and have strong communication skills with the ability to interact with other researchers from diverse scientific backgrounds. Must have experience in scientific programming with applications to biomedical research, preferably in the area of genomics and next-generation sequencing analysis.

Additional Details
This job requires that employees be fully vaccinated against COVID-19 as a condition of employment. Rockefeller University provides reasonable accommodations where legally required including accommodations for medical conditions and sincerely held religious beliefs.

For the application please include:
- Curriculum Vitae

Application
-Please send your application to: Thiago Oliveira (toliveira@rockefeller.edu)

We’re looking forward to reading your application!