

Postdoctoral Research Scientist – Viral control of microbial communities in Antarctic lakes

Overview

The Bigelow Laboratory for Ocean Sciences (www.bigelow.org) is seeking a qualified and highly motivated individual for a postdoctoral research scientist position. The hired scientist will work on a project investigating the diversity and dynamics of viruses, as well as the effect of viruses on phytoplankton in marine-derived lakes of the Vestfold Hills in Antarctica (https://www.nsf.gov/awardsearch/showAward?AWD_ID=1644155&HistoricalAwards=false) These “natural laboratories” allow examination of microbial processes and interactions that would be difficult to characterize elsewhere on earth. This project does not require fieldwork in Antarctica. Instead, it will leverage already collected and archived samples that have concurrent measurements of physicochemical information. This project will also capitalize on approximately 2 terabyte of Next Generation Sequencing, including metagenomes, SSU rRNA amplicons and single virus genomes (this project) generated through an ongoing collaborative effort with other institutions.

The project is led by Dr. Joaquín Martínez Martínez, and utilizes cutting-edge molecular technologies, and takes advantage of significant bioinformatics support and computational resources at Bigelow Laboratory. Bigelow Laboratory’s new campus is located in scenic, coastal Maine and is a nurturing scientific community with an active postdoctoral program, including a postdoctoral education and ethics training program. Postdoctoral researchers are also encouraged to participate in Laboratory-wide educational and outreach programs (https://www.bigelow.org/education/postdoctoral_education/).

Requirements

Applicants must have a PhD degree or post-degree experience in relevant fields, such as environmental microbiology/virology, bioinformatics, and oceanography. Strong organizational and multi-tasking skill, demonstrated productivity, excellent writing and oral communication skills and ability to work harmoniously in a collaborative team are crucial. Additional preferred qualifications include working knowledge in one or more of the following techniques: Flow Cytometry, nucleic acids purification, quantitative PCR, whole-genome amplification, and sequencing.

How to apply

Please upload the following documents at <https://www.bigelow.org/about/careers.html> for position PD-2017-4:

- Letter of intent describing candidate’s motivation, skills, and relevant experience.
- Curriculum vitae
- Contact information for three references

The position has an expected start date of October 2017 or earlier, but this may be negotiated. Specific questions about the position may be addressed to Dr. Joaquín Martínez Martínez, jmartinez@bigelow.org. Review of applicants will begin immediately and proceed until the position is filled. Bigelow Laboratory is an Equal Opportunity/Affirmative Action Employer.