



POSTDOCTORAL RESEARCHER POSITION
UNIVERSITY OF HAWAII, MĀNOA



Position Overview:

The Pipes Lab (<https://pipes-lab.pbrc.hawaii.edu>) at the Pacific Biosciences Research Center (PBRC) at the University of Hawai'i at Mānoa is seeking a highly motivated postdoctoral researcher to join our team. This position will focus on developing computational and statistical methods to analyze the vast amount of sequencing data generated from various environmental and public health projects, including wastewater surveillance and microbial ecology studies. The successful candidate will develop and implement cutting-edge computational and statistical methods to analyze Next Generation Sequencing (NGS) data, particularly in the context of taxonomic classification and large-scale biodiversity assessment.

Key Responsibilities:

- Development of new, and extension of existing statistical methods for species assignment
- Development of a novel method for custom metabarcoding reference databases
- Implementation of the above mentioned methods in easy, accessible open source software packages
- Dissemination of the results in peer-reviewed journals and at national and international scientific conferences
- Collaborate with other researchers and participate in lab meetings, conferences, and seminars
- Train and mentor graduate students and other research staff as needed

Minimum Qualifications Required (by the time of start date):

- Ph.D. (or equivalent degree) in Computer Science, Statistics, Biology or related fields.
- Proficiency in computing programming languages such as C/C++
- Experience with the development of novel statistical methods in genomics or phylogenetics

- Evidence of scientific productivity, including peer-reviewed publications
- Strong communication skills, both written and verbal
- Ability to work independently and as part of a collaborative team

Preferred Qualifications:

- Ability to work as a team member to accomplish goals
- Experience working on the development of advanced computational methods for large data sets, database construction, and development of user interfaces
- Previous experience working with NGS data and environmental data and/or phylogenetic methods.
- Demonstrated ability to lead independent projects

Appointment Details:

The initial appointment is for one year, with the possibility of extension based on performance and funding availability. The start date is flexible, between [start date range, e.g., November 2024 and March 2025]. The salary range for this position is between \$65,000 and \$70,000.

Application Process

Interested applicants should send the following materials to Lenore Pipes at lpipes@hawaii.edu:

- A cover letter describing your research background and how it aligns with the position
- Curriculum vitae (CV) with contact information for three references

Informal inquiries prior to application are welcome and can be directed to Lenore Pipes (lpipes@hawaii.edu).

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