

Postdoctoral position, Johns Hopkins University

A postdoctoral position in microbial ecology is available in Dr. Jocelyne DiRuggiero's research group at JHU. The lab studies the genetic and functional diversity of microbial communities from extreme environments to identify the mechanisms that sustain biodiversity and ecosystem functioning. For more info, visit the lab website at <http://krieger2.jhu.edu/biology/labs/diruggiero/lab/index.html>.

Position Description

This postdoctoral position is for a NSF-funded project to identify the factors that govern the genetic and functional composition of endolithic microbial communities from arid and hyperarid ecosystems. More specifically, the project sought to (1) identify the stochastic and deterministic processes that influence community assemblages and (2) to determine the genetic diversity and molecular adaptations of phototrophs and how they relate to the local environment, biogeography, and ecosystem functioning. This study is part of a large-scale interdisciplinary approach with a major emphasis on metagenomics analyses (environmental metagenomics and single cell genomics).

Qualifications

Qualified candidates will be enthusiastic, highly motivated, and will possess a demonstrable understanding of bioinformatics and computational biology with a background in molecular biology and/or microbial ecology. The candidate will have a doctoral degree in Genetics, Biology, Microbiology, Computer Science or a related field. Experience with metagenome assembly, functional annotation, and genome comparison is required. Programming and statistical skills in languages such as Perl, Python, and R are desirable.

How to Apply

Please send at jdiruggiero@jhu.edu:

- Letter of Interest - addressing the stated required skills for the position, research interests, and career goals
- Detailed resume listing education and describing research experience
- Names and contact information for three (3) professional references

Additional opportunities in the DiRuggiero lab are via the NASA Postdoctoral Program (NPP). More information at <https://npp.usra.edu/opportunities/details/?ro=18949>

