



Posting: Postdoc positions in Soil Microbiology and Viral Ecology

Location: Lawrence Livermore National Lab

The Physical and Life Sciences Directorate at LLNL seeks two postdoctoral researchers to use molecular microbial community analysis, advanced genomics and isotope tracing to understand the role of phage in soil. This research will involve stable isotope probing, isotopic imaging (NanoSIMS), and analysis of complex metagenomic datasets and will support LLNL's multi-investigator program in microbial carbon cycle genomic sciences. The position will be part of the LLNL Systems Biology team, led by Jennifer Pett-Ridge, Steve Blazewicz and Erin Nuccio of the Environmental Chemistry Group. Primary analytical resources include a Cameca NanoSIMS 50 ion microprobe, accelerator mass spectrometry, high performance computing, and active collaborations with external organizations such as UC Berkeley, Ohio State University, LBNL, EMSL and the Joint Genome Institute. Expected start date is March – August 2018.

Essential Duties

- Develop innovative research using stable isotope probing, secondary ion imaging (NanoSIMS) and 'omics molecular analysis to target soil phage interactions
- Develop and pursue innovative research using ^{13}C , ^{15}N , and ^{18}O stable isotope analyses combined with 'omics molecular analysis.
- Collaborate with a diverse team of multidisciplinary scientists and technical personnel.
- Perform independent research and lead new projects in the area of soil microbiome research and isotope-'omics enabled method development.
- Publish research results in peer-reviewed scientific or technical journals and present results at external conferences, seminars, and/or technical meetings.

Qualifications

PhD in Microbial Ecology, Viral Ecology, Microbiology, Biology, Biogeochemistry, or related field and demonstrated experience.

- Experience in environmental viral ecology and/or microbiology
- Analytical experience with microanalysis and microscopy
- Skilled with bioinformatics and microbial community statistical analyses
- Publication record in well-regarded refereed journals.
- Demonstrated ability as an independent and innovative experimentalist
- Demonstrated experience in written and verbal communication skills necessary to deliver presentations and prepare written publications, and reports.

Interested parties should contact Steve Blazewicz, blazewicz1@llnl.gov

NOTE: This is a two-year term appointment with the possibility of extension to a maximum of three years. Eligible candidates are recent PhDs within five years of the month of the degree award at time of employment offer.

Pre-Employment Drug Test: External applicant(s) selected for this position will be required to pass a post-offer, pre-employment drug test.

