



Available positions in the Thrash Lab, University of Southern California, Los Angeles, CA.

Postdoctoral Researcher

We are recruiting for a postdoc position focused on investigating fundamental cellular mechanisms that set growth rates in marine microorganisms, with a focus on slow-growing oligotrophic taxa. The research will include experimental enquiry with axenic cultures involving such approaches as high-throughput culturing aided by partial automation, proteomics including RAD-seq, transcriptomics, and analytical chemistry.

Ideal candidates will have:

- A Ph.D. and a publication record in microbiology, microbial ecology, biological oceanography, or a related field;
- Experience with culturing microorganisms in pure culture;
- Experience with advanced activity measurements like isotope probing;
- Detailed understanding of microbial metabolism and regulation, particularly related to growth dynamics;
- Basic bioinformatics skills;
- Excellent written and oral communication skills.

This position is funded for up to 36 months through the Simons Foundation. We strongly encourage applications from under-represented minority groups. To apply, please send an email and your CV to Dr. Cameron Thrash (thrash@usc.edu).

Research Lab Technician II

Provides general laboratory assistance to support research activities. Conducts research experiments in accordance with laboratory and safety protocols. Performs assignments which are non-routine and vary in complexity with minimal direction. Compiles data and computes results for a variety of research procedures, tests and techniques.

Lab-specific position responsibilities: The Research Lab Technician II will be responsible for microbiological cultivation and culture collection management, multi-omics bioinformatics analyses, and genome sequencing of cultures. Cultivation duties will include media preparation, handling cultures in liquid and solid media, flow cytometry for growth measurements, and data management. Bioinformatics analyses can include genome and metagenome assembly, read recruitment, integration of transcriptomic and genomic data, 16S rRNA gene analyses, and metabolomic data analyses.

Qualifications:

- Prior experience in laboratory research, and specifically culturing, is required;
- Bioinformatics experience is preferred, but not required;
- A Bachelor's degree in microbiology or a related field is preferred.

This position is funded for up to 36 months through a variety of mechanisms including multiple private foundations. We strongly encourage applications from members of under-represented minorities. To apply, please go to uscareers.usc.edu and search requisition ID **REQ20086676**.