



# Stanford University

## Two Postdoctoral Researcher Positions Open

The Dekas Geomicrobiology Laboratory at Stanford University seeks two highly motivated postdoctoral researchers. Each successful candidate will have a Ph.D. in a related field, a strong publication record, research experience in microbial ecology, a desire to learn/use nanoscale secondary ion mass spectrometry (nanoSIMS) and specific expertise as indicated below. Interested candidates should send a complete CV, cover letter, and a list of three professional references to Dr. Anne Dekas at [dekas@stanford.edu](mailto:dekas@stanford.edu). Review of applications will begin on **December 20, 2017**, after which applications will be reviewed on a rolling basis. Applicants should indicate to which position they are applying (if both, a preference should be indicated), as well as their earliest potential start date on or after February 15, 2018 (Position 1) or April 1, 2018 (Position 2). Start dates as late as June 2018 may be considered, but earlier dates are preferred.

### *Position 1: Deep-sea microbiology and biogeochemistry*

The Dekas Laboratory seeks a postdoctoral researcher to lead a project on deep-sea microbiology and biogeochemistry, with the goal of investigating the direct and indirect roles of microbial activity in greenhouse gas cycling. Expertise in marine microbial ecology, as well as one or more of the following techniques, is required: catalyzed reporter deposition fluorescence *in situ* hybridization (CARD-FISH), fluorescence activated cell sorting (FACS), stable isotope labeling, and/or next-generation sequencing (e.g., Illumina amplicon sequencing, metatranscriptomics). A set of samples collected along a transect west of San Francisco (surface to 4500 m water depth) is available for this project immediately, however an ability and willingness to perform additional fieldwork at sea is desirable. This position is funded by the Simons Foundation via an Early Career Investigator in Marine Microbial Ecology and Evolution Award to Anne Dekas (PI).

### *Position 2: Microbial 'dark matter' in terrestrial hot springs*

The Dekas Laboratory seeks a postdoctoral researcher to lead a project on the physiological and ecological characterization of microbial candidate phyla within Great Boiling Spring, Nevada. Expertise in microbial ecology, as well as one or more of the following techniques, is required: catalyzed reporter deposition fluorescence *in situ* hybridization (CARD-FISH), stable isotope labeling, and/or enrichment culturing. Experience with next-generation sequencing (e.g., Illumina amplicon sequencing) is also preferred. Enrichment cultures from Great Boiling Spring are available for this project immediately, however an ability and willingness to perform additional fieldwork in Nevada is desirable. This position is funded by NASA via an Exobiology Grant to Brian Hedlund, UNLV (PI), Anne Dekas, Stanford (co-I), Jeremy Dodsworth, CSUSB (co-I), Xavier Mayali, LLNL (co-I) and Jennifer Pett-Ridge, LLNL (co-I), and will involve collaboration and travel between institutes.

### **The Dekas Laboratory at Stanford University**

The Dekas Laboratory is part of the Earth System Science Department within the Stanford University School of Earth, Energy and Environmental Science. The Lab investigates the activity of bacteria and archaea in the modern environment, with an emphasis on single-cell measurements, with the goal of understanding the role of microbial activity in the evolution of our atmosphere and the future of our climate. More information about the Lab can be found at: <https://earth.stanford.edu/dekaslab/>.

*Stanford is an equal opportunity employer and all qualified applicants will receive consideration without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, veteran status, or any other characteristic protected by law.*