

Postdoctoral Position in Bacterial Microcompartment Engineering

A postdoctoral position is now available in the Kerfeld Group (<http://www.kerfeldlab.org/>) at the DOE Plant Research Laboratory and Department of Biochemistry at Michigan State University.

The postdoctoral position involves protein/enzyme engineering, functional and structural characterization (including EM techniques, x-ray crystallography, x-ray footprinting), and synthetic biology-based approaches in vitro, *E. coli* and cyanobacteria. Closely related projects are at various experimental stages, so that the successful candidate can start productive work immediately.

We are looking for highly motivated candidates with a strong background in molecular biology who can interact collaboratively among a variety of disciplines. Experience cellular imaging, bioinformatics or enzyme characterization desirable. We offer a highly stimulating interdisciplinary research environment, excellent working conditions and facilities in our labs in Michigan and Berkeley. There are possibilities to join other ongoing exciting projects in the group focused on structural analysis of carboxysome components and other bacterial microcompartments as well as bioinformatics. Excellent opportunities to learn well established and new protein structural characterization techniques.

Qualifications

- The candidate needs to have excellent written and verbal communication skills
- Experience in overexpression and purification of proteins/enzymes
- Experience in performing and designing enzyme activity assays
- Understanding of central carbon metabolic pathways
- Experience in genetic manipulation of microorganisms.
- Demonstrated ability to conduct and perform collaborative research and effectively interact with a broad range of colleagues
- Demonstrated ability to independently carry out creative research with tenacity and of the highest quality standards
- Ability to organize and present reports to collaborators and sponsors.
- Working knowledge of bioinformatics tools.
- Ability to work independently and as a team member in a diverse team environment.
- Experience and skill in preparing research publications
- Experience in one or more of the following: synthetic biology or bioengineering, protein design, high-throughput approaches to cloning and imaging, enzymology or biophysical characterization of macromolecular complexes.
- PhD in biochemistry, molecular biology, biophysics or related field.

To Apply: Send letter of interest and CV to ckerfeld@berkeley.edu