

## **XFEL Postdoctoral Fellow (Crystallography/Spectroscopy) - 96141**

### **Division: MB-Molecular Biophys & Integ Bio**

Berkeley Lab's Molecular Biophysics & Integrated Bioimaging (MBIB) Division is looking for a Postdoctoral Fellow to conduct activities that involve the use of X-ray absorption and emission spectroscopy, using both hard and soft X-rays, and X-ray crystallography of several metalloproteins, like Photosystem II and others, primarily using X-ray free electron laser and synchrotron sources.

In this exciting role, you will have the opportunity to collaborate with several groups. Related work with inorganic model systems, artificial photosynthetic systems, and electron transfer studies using in situ photo/electrochemistry and X-ray spectroscopy are also ongoing in the PIs laboratories.

#### **What You Will Do:**

- Prepare photosystem II/artificial photosynthetic/metalloprotein samples/ in different intermediate states that will be studied by time resolved and static X-ray crystallography/spectroscopy.
- Participate in group meetings and seminars.
- Work with other members of the group and collaborators under the supervision of senior members of the group and the P.I.
- Analyze and interpret the results and write papers describing the results.
- Maintain an accurate and detailed scientific logbook of all experiments performed; ensure that others could duplicate results.

#### **What is Required:**

- A PhD in Physical Chemistry, Biophysical Chemistry, Biochemistry, or a related field.
- Experience with the handling and characterization of biological/inorganic catalytic materials.
- A strong background in biochemical or crystallography/spectroscopy techniques.
- Excellent oral and written communication skills including demonstrated ability to conduct independent research as evidenced by publications in scientific journals.
- Strong interpersonal skills including ability to work as part of a diverse team in a collaborative interdisciplinary team environment.
- Must be able to participate in shift work at XFEL/synchrotron radiation facilities including nights and weekends as needed depending on x-ray beamtime allotments.

#### **What We Prefer:**

- Experience with XFEL/synchrotron radiation facilities and spectroscopy.
- Experience in instrumentation development.

**For full consideration, please apply by July 15, 2022 with the following application materials:**

- Cover Letter - Describe your interest in this position and the relevance of your background.
- Curriculum Vitae (CV) or Resume.

**Notes:**

- This is a full time, exempt from overtime pay (monthly paid), 1 year, Postdoctoral Fellow position with the possibility of renewal based upon satisfactory job performance, continuing availability of funds, and ongoing operational needs. You must have less than 4 years of paid postdoctoral experience.
- This position is represented by a union for collective bargaining purposes with predetermined postdoctoral step rates dependent on years of experience post-degree.
- Salary is commensurate with experience.
- This position may be subject to a background check. Any convictions will be evaluated to determine if they directly relate to the responsibilities and requirements of the position. Having a conviction history will not automatically disqualify an applicant from being considered for employment.
- Work will be performed onsite at Lawrence Berkeley National Lab, 1 Cyclotron Road, Berkeley, CA.

**How To Apply**

Apply directly online at <http://50.73.55.13/counter.php?id=232364> and follow the on-line instructions to complete the application process.

**Learn About Us:**

Berkeley Lab (LBNL, <http://www.lbl.gov/>) addresses the world's most urgent scientific challenges by advancing sustainable energy, protecting human health, creating new materials, and revealing the origin and fate of the universe. Founded in 1931, Berkeley Lab's scientific expertise has been recognized with 13 Nobel prizes. The University of California manages Berkeley Lab for the U.S. Department of Energy's Office of Science.

Berkeley Lab's Postdoc Program is committed to providing Postdoctoral Researchers and Visiting scholars with a positive and impactful experience to jump-start their career through premium research and career development, networking opportunities, mentoring programs, and a strong community. For more information, please visit our Berkeley Lab Postdoc Resources site (<http://postdocresources.lbl.gov/>) and our Berkeley Lab Postdoc Association site (<http://postdoc.lbl.gov/>).

Based on University of California Policy - SARS-CoV-2 (COVID-19) Vaccination Program and U.S Federal Government requirements, Berkeley Lab requires that all members of our community obtain the COVID-19 vaccine as soon as they are eligible. As a condition of employment at Berkeley Lab, all Covered Individuals must Participate in the COVID-19 Vaccination Program by providing proof of Full Vaccination or submitting a request for Exception or Deferral. Visit [covid.lbl.gov](https://covid.lbl.gov) (<http://covid.lbl.gov/>) for more information.

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Berkeley Lab is an Equal Opportunity and Affirmative Action Employer. We heartily welcome applications from women, minorities, veterans, and all who would contribute to the Lab's mission of leading scientific discovery, inclusion, and professionalism. In support of our diverse global community, all qualified applicants will be considered for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status.

Equal Opportunity and IDEA Information Links:

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