

Postdoctoral Fellow (Material Characterization)-75700

OrganizationAL-Advanced Light Source

Description

The Advanced Light Source Division (ALS) at Lawrence Berkeley National Laboratory offers a postdoctoral position related to material characterization using advanced x-ray microscopy techniques. As part of an aggressive R+D program, the ALS has commissioned three ptychographic soft x-ray microscopes capable of spectroscopic and tomographic imaging. Research will be focused on exploiting the ultra-high resolution and spectroscopic capabilities of these microscopes to investigate problems in the material sciences.

Key Responsibilities:

- Develop an independent program of research characterizing energy related materials with advanced x-ray imaging methods.
- Work with a team of experts in the field of soft x-ray microscopy to optimize the x-ray microscopes and data analysis procedures for materials research.
- Report results internally to collaborating researchers and externally at conferences and in peer-reviewed publication

Qualifications:

- Recent Ph.D. in Materials Science or related discipline
- Experience characterizing materials with either x-ray or electron microscopy
- Excellent critical analysis and communication skills
- Ability to work effectively within an inter-disciplinary team of researchers

Note: This is a 1-year postdoctoral appointment with the possibility of extension based on continued funding, successful performance, and business need. Background checks are required.

About Us

The Advanced Light Source is a third generation synchrotron radiation facility providing intense x ray, ultraviolet, and IR beams that are employed by researchers from the U.S. and the world in a wide range of diverse research applications such as structural molecular biology, environmental science, and materials science. Learn more at <http://www-als.lbl.gov/>.

Lawrence Berkeley National Laboratory 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. Berkeley Lab's science is a global enterprise. Our scientists work at the frontiers of knowledge to better understand our universe and to address the challenges facing our nation and our planet. Read about the excellent [Total Rewards Program](#).

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