



U.S. DEPARTMENT OF
ENERGY

Office of Science



MATERIALS STAFF SCIENTIST

Materials Sciences Division

An opportunity to establish a cutting-edge cryogenic electron microscopy program to image radiation-sensitive synthetic materials on the atomic scale.

Position Overview

Berkeley Lab's Materials Sciences Division has an opening for a Materials Staff Scientist.

The Staff Scientist appointed to this position will be a principal investigator in the Materials Sciences Division (MSD). The Staff Scientist will establish a cutting-edge cryogenic electron microscopy (cryo-EM) research group to explore the structure-property relationships in radiation-sensitive synthetic materials, and materials displaying novel low-temperature properties. The responsibilities include:

- The development of experimental cryo-EM platforms for obtaining data at the atomic level from both organic and inorganic solids.
- Advancement of sample-preparation, imaging modalities, and data collection in modern cryogenic electron microscopes
- Participation in the development of novel sample environments for high resolution imaging at extremely low temperatures such as 1-10K.
- Research into fundamental understanding of both materials science and the interactions between electrons and materials that enables the development of new high resolution cryo-EM approaches.

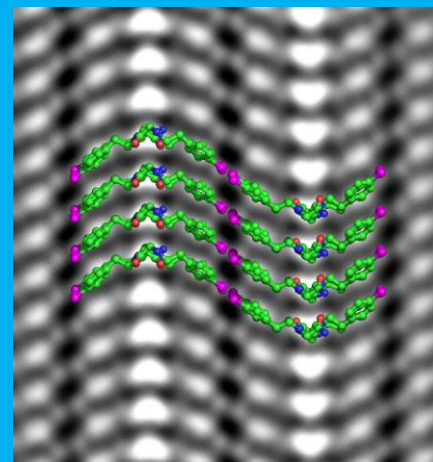
This position will remain open until filled.



BERKELEY LAB

Position Opening:

Lawrence Berkeley
National Laboratory
(Berkeley Lab) is
seeking an exceptional
and motivated
individual to join our
Materials Sciences
Division



Our Mission:

Bringing science
solutions to the world.

Key Success Factors

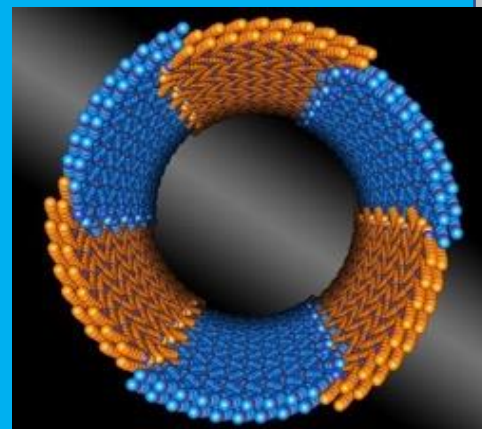
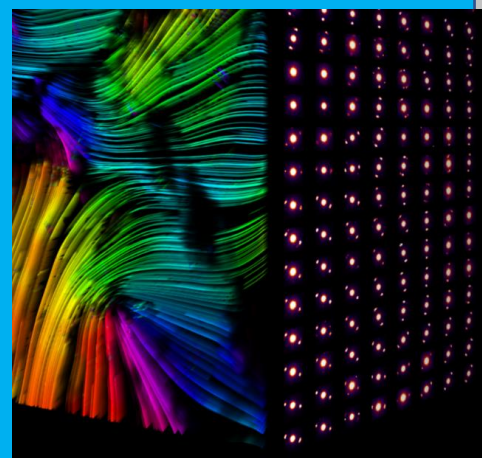
- Ph.D. or equivalent in polymer science, materials science, biological science or a related field, and proven track record in cryogenic electron microscopy.
- Fundamental understanding of electron optics in cryogenic electron microscopy and the algorithms for image processing.
- Demonstrated expertise in computational methods for image analysis and sample preparation methods for cryogenic electron microscopy.
- Strong publication record in relevant areas.
- A broad understanding of materials science.

Introduction to Berkeley Lab

Lawrence Berkeley National Laboratory (Berkeley Lab) addresses the world's most urgent scientific challenges by conducting unclassified research across a wide range of scientific disciplines, including: studies of the universe, quantitative biology, nanoscience, new energy systems/environmental solutions, and the use of integrated computing as a tool for discovery. Located on a 200-acre site in the hills above the UC Berkeley campus, Berkeley Lab's scientific expertise has been recognized with 13 Nobel prizes. <http://www.lbl.gov/>

For more information, please contact:

Evan Garfield
Recruiter
Lawrence Berkeley National Laboratory
egarfield@lbl.gov



Strategic Directions:

From the infinite scale of the universe to the infinitesimal scale of subatomic particles, Berkeley Lab researchers are addressing national and global challenges and advancing the scope of human knowledge through an array of scientific programs, partnerships, and proposals.

