Computing Sciences at Berkeley Lab

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Berkeley Lab is one of the 17 U.S. Department of Energy (DOE) National Laboratories.

The mission of the Energy Department is to ensure America’s security and prosperity by addressing its energy, environmental and nuclear challenges through transformative science and technology solutions.
Science at Berkeley Lab

- Our focus is on Discovery science
- Scientific solutions addressing national challenges, especially energy
- Unique scientific capabilities
  - Scientific User facilities
- Important technologies with long, risky R&D paths
Berkeley Lab hosts five major scientific user facilities for the US
Berkeley Lab Changes Science

Lawrence introduces big team science 1931
LBNL the first National Lab

Radiation Lab staff on the magnet yoke for the 60-inch cyclotron, 1939, including:
- E. O. Lawrence
- Edwin McMillan
- Glenn Seaborg
- Luis Alvarez
- J. Robert Oppenheimer
- Robert R. Wilson

Today, Berkeley Lab has:
- Over 4000 employees
- $1.1B in FY18 funding
- 13 associated Nobel prizes
Berkeley Lab’s Computational Research Division leads in many areas

Applied Mathematics
- Multiphysics, Multiscale, Multiphase
- Adaptive Mesh Refinement
- Scalable Solvers

Computer Science
- Architecture
- Performance Models
- Programming Models
- Parallel Algorithms

Data Science & Technology
- Analytics
- Data Management
- Workflows
- Visualization
- Cybersecurity

Computational Science
- Cosmology
- Physics
- Climate
- Materials
- Chemistry
- Biology
- Photon Science

Impacts in computing, mathematics, data and domain science
Opportunities in Computing Sciences at Berkeley Lab

Current Openings

Berkeley Lab Computing Sciences is looking for smart, motivated people from all walks of life and at all stages of their careers. Join us in tackling the world’s most urgent scientific challenges by advancing sustainable energy, protecting human health, searching for new materials, and revealing the origin and fate of the universe.

Visit jobs.lbl.gov to search current openings.
For more information about Computing Sciences at Berkeley Lab:
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https://youtu.be/P30BmQREzxI