

Welcome. You are not signed in. | [My Account Options](#)  [My Job Cart](#) | [Sign In](#)

[Career Search](#) | [My Careerpage](#)

[Basic Search](#) | [Advanced Search](#) | [All Jobs](#)

Job 7 out of 32 [Previous](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)

[Apply Online](#) | [Add to My Job Cart](#)  [SHARE](#)    ...

Postdoctoral Fellow - Computational Science Department-80389

Organization:CR-Computational Research

Description

The Computational Science (CLS) Department in the Computational Research Division (crd.lbl.gov) is looking for talented and motivated postdoctoral fellows to become part of our team working on exciting science research projects. Researchers in computer and data science or any relevant computational science discipline who have received their Ph.D. within the last three years are encouraged to apply. The successful applicant will receive a competitive salary and excellent benefits.

The CLS Department performs innovative research that enhances high performance computational science application codes used in scientific discovery across a broad range of scientific disciplines. Members of the Department collaborate broadly across Berkeley Lab, the DOE National Laboratory community, and with academic, government and industrial institutions internationally to enable breakthrough scientific discoveries that make essential use of high-performance computing capabilities. Current research areas include data management and analytics for biosciences, development of high-performance computing software for chemistry and material science, modeling and analysis of extreme weather and climate events, developing and deploying simulation and data analysis tools for cosmology, and delivering infrastructures for scientific data exploration in experimental physics and X-ray science. More details on projects can be found at crd.lbl.gov/departments/computational-science/.

The successful applicant will be part of one of the multi-disciplinary teams in the department working on a wide array of research and development project and will join one of the four CLS groups. These groups and their mission/focus are listed below:

The *Biosciences Computing (BCG)* Group's mission is to address key data management challenges caused by the massive increase in the amount and range of biological data, the difficulty of quantifying the quality of data generated using inherently imprecise tools and techniques, and the high complexity of integrating data residing in diverse and sometimes poorly correlated repositories. BCG's strategy involves using existing database technologies and analysis methods, adapted as needed to a specific application, in order to address immediate biological data management and bioinformatics requirements. Critical data management and analysis problems that cannot be resolved using existing technologies and methods are pursued as part of longer term R&D activities. crd.lbl.gov/departments/computational-science/biosciences-computing/

The *Computational Chemistry, Materials and Climate (CCMC)* Group's goals are to enable scientific discovery through the development of scientific computing applications and capabilities for the integration and analysis of complex data from simulation and experiment coming from scientific application areas in atmospheric modeling and materials & chemical sciences. See also crd.lbl.gov/departments/computational-science/computational-chemistry-materials-and-climate/

The *Computational Cosmology Center (C3)* is a focused collaboration of astrophysicists and computational scientists whose goals are to develop the tools, techniques and technologies to meet the analysis challenges posed by present and future cosmological data sets. See also crd.lbl.gov/departments/computational-science/computational-cosmology-center/

The *Physics and X-Ray Science Computing (PHXS)* Group are embedded in large experimental collaborations to provide cyberinfrastructure for scientific data analysis and exploration. This includes architecting and developing frameworks and workflow, providing integrated data analysis environments for large-scale scientific experiments. The group also designs, develops,

deploys and operates robust, secure scientific cyberinfrastructure. See also crd.lbl.gov/departments/computational-science/physics-and-x-ray-science-computing/

The successful candidate will have excellent oral and written communication skills; have a strong technical background in applied mathematics, computer science or computational science and be able to work effectively both in an independent fashion as well as part of a team.

SPECIFIC RESPONSIBILITIES:

- Research, development, and coding of new and existing algorithms, tools and technologies to meet computational science challenges.
- Evaluation of existing and new techniques and results
- Work in a multidisciplinary team environment, including backgrounds in biology, chemistry, materials science, climate, statistics, physics, nuclear science, cosmology, astrophysics, energy technologies, and computer science
- Author peer-reviewed journal articles and contribute to grant proposals

ESSENTIAL QUALIFICATIONS:

- Ph.D. in a Science or Engineering field
- Experience working in a collaborative environment
- Established record of peer reviewed publications
- Proven experience writing and/or adapting software
- Excellent written and oral communication skills
- Keen interest in solving science challenges

Additional desired qualifications:

- Experience with scientific programming languages (e.g., Python, R, C/C++, Fortran) and parallel languages and execution environments (e.g., MPI, OpenMP, OpenCL, CUDA).
- Experience with scientific data sets, formats or types.
- Experience as part of a multidisciplinary, collaborative team that includes computer/computational scientists and domain scientists.

NOTES: *We encourage all applicants to provide a cover letter and a statement of research interests when applying.*

This is a 1-year term appointment with the possibility of renewal for up to 3 years based upon satisfactory job performance, continuing availability of funds, and ongoing operational needs. Salary for postdoctoral positions depends on years of experience post-degree.

This position requires completion of a background check.

Berkeley Lab understands the postdoctoral experience in a research environment is unique. We are committed to the growth and development of early career researchers in pursuit of becoming next generation scientists and engineers. Read about the [excellent postdoctoral benefits](#) at Berkeley Lab.

Berkeley Lab is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. Click [here](#) to view the poster: "Equal Employment Opportunity is the Law".

[Apply Online](#)[Add to My Job Cart](#)[SHARE](#)    ...

Job 7 out of 32 [Previous](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)