

Postdoctoral Scholar (Energy Analysis & Environmental
Impacts)
Lawrence Berkeley National Laboratory

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Job Title	Postdoctoral Scholar (Energy Analysis & Environmental Impacts)
Department	Environmental Impacts
Institution	Lawrence Berkeley National Laboratory Berkeley, California
Date Posted	Sep. 13, 2017
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Physics - General Materials Sciences/Polymer Sciences Environmental Sciences/Ecology/Forestry Computer/Information Sciences
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Job Description

Postdoctoral Scholar (Energy Analysis & Environmental Impacts) - 84069
Organization: ED-Energy Storage & Distributed Resources

Position Summary:

Berkeley Lab's Energy Analysis & Environmental Impacts (EAEI) Division has an opening for a Postdoctoral Scholar Employee. Berkeley Lab's EAEI Division performs innovative research to achieve clean, affordable, and accessible energy systems. The successful applicant will conduct high-throughput screening and techno-economic analysis of classical and emerging adsorption materials for methane and hydrogen gas separation and stationary storage systems as part of a multi-disciplinary project that combines systems analysis, computational science, and materials science. The successful

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applicant will develop new methods for predicting system performance metrics from material performance metrics (deliverable capacity, parasitic energy) created and used to screen material databases and materials.

What You Will Do:

- Research, develop, and code new and existing algorithms, tools and technologies to meet data-intensive, data-driven science challenges.
- Evaluate existing and new techniques and results for high-throughput screening of materials.
- Research and implement physical models that connect outputs of fundamental simulations with engineering properties of materials.
- Contribute to techno-economic and market analyses to evaluate potential impacts of deploying targeted materials in key industrial applications and sectors.
- Work in a multidisciplinary team environment, including backgrounds in biology, chemistry, earth sciences, statistics, physics, energy technologies, materials science, and computer science.
- Analyze and summarize data and present findings at internal lab meetings and scientific conferences.
- Publish in peer-reviewed journals and contribute to scientific research papers and reports.

Additional Responsibilities as needed:

- Participate in routine Sustainable Energy System Group meetings.
- Assist with mentoring of interns.
- Ensure that results are translated to industry impact.
- Contribute to research proposals and grants as needed.

What is Required:

- Ph.D. in Computational Science, Material Science, Physics, Computer Science, Environmental Engineering or related field.
- Strong programming experience and familiarity with software versioning systems.
- Experience in high-performance computing.
- Knowledge of gas separation or storage technologies and adsorption materials a plus.
- Evidence of ability to publish results in relevant journals.
- An ability to work in an integrated diverse team environment.
- Excellent written and oral communication skills.
- Keen interest in solving science challenges, particularly in energy.
- Keep an accurate and detailed physical or digital laboratory notebook.

Additional Desired Qualifications:

- Prior experience working with or developing and maintaining databases of nanoporous materials data.
- Keen interest in multidisciplinary research to influence policy and technology development.

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The posting shall remain open until the position is filled, however for full consideration, please apply by close of business on September 21, 2017.

Notes:

- This is a full time, 1 year, postdoctoral appointment 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 paid postdoctoral experience. Salary for Postdoctoral positions depends on years of experience post-degree.
- Full-time, M-F, exempt (monthly paid) from overtime pay.
- This position is represented by a union for collective bargaining purposes.
- Salary will be predetermined based on postdoctoral step rates.
- 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.
- Lawrence Berkeley National Lab, 1 Cyclotron Road, Berkeley, CA.

How To Apply

Apply directly online at <http://50.73.55.13/counter.php?id=109190> and follow the on-line instructions to complete the application process.

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.

EEO/AA Policy

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Equal Employment Opportunity: 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. Berkeley Lab is in compliance with the Pay Transparency Nondiscrimination Provision under 41 CFR 60-1.4

(http://www.dol.gov/ofccp/pdf/EO13665_PrescribedNondiscriminationPostingLanguage_JRFQA508c.pdf). Click here (<http://www.dol.gov/ofccp/regs/compliance/posters/pdf/eeopost.pdf>) to view the poster: "Equal Employment Opportunity is the Law".

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Lawrence Berkeley National Laboratory (LBNL)