Position Summary:
Berkeley Lab’s Environmental Genomics & Systems Biology Division has an opening for a Biologist Postdoctoral Scholar. This position will be part of an effort led by Aymerick Eudes in the Feedstocks Division at JBEI. You will be involved in two sub-projects: (1) developing metabolic pathways to produce novel lignins and/or valuable co-products in model plants (Arabidopsis, Brachypodium, tobacco) and (2) characterize sorghum lines engineered with the existing JBEI-Feedstocks’ technology portfolio. Your primary role will be to generate DNA constructs for plant transformation, select transgenic plants, characterize the engineered plant material at the metabolite level, and conduct biomass deconstruction analysis.

What You Will Do:
• Generate a suite of plasmid constructs for engineered metabolic pathways.
• Plant transformation (Arabidopsis / Brachypodium) / Molecular characterization.
• Metabolite extraction from Arabidopsis, Brachypodium, and sorghum transgenic lines.
• Deconstruction analysis of engineered biomass.
• Collaborate with JBEI-Fuels and Bioproducts Division for biomass conversion.
• Prepare manuscripts for publication and assist with the development of funding proposals and patents. Participate in group meetings and seminars.
• Maintain an accurate and detailed scientific logbook of all experiments performed. Archive generated material (Plasmid / seeds / biomass samples). Ensure that others could duplicate results.
• Provide detailed monthly reports that can be used as part of manuscript for peer reviewed journals.

What is Required:
• Recent PhD in Plant Biology, Molecular Biology, Metabolomics, Biochemistry, or related areas.
• Excellent oral and written English communication skills.
• Substantial knowledge in DNA manipulation / cloning.
• Substantial knowledge in working with model plants (Arabidopsis, Brachypodium, tobacco) including culturing, transformation, selection, genotyping.
• Previous experience in synthetic biology, metabolite analysis, lignin analyses, biomass deconstruction.
• Ability to conduct experiments independently.
• Ability to conduct original work that meets the milestones of a larger project and scientific program.

Additional Desired Qualifications:
• Experience with scientific journal writing submissions and ability to write above average reviews and articles for submission.
• Experience with using Liquid and Gas chromatography instrumentation (LC-MS and GC-MS).

The posting shall remain open until the position is filled, however for full consideration, please apply by close of business on January 8, 2018.

Notes:
• This is a full time, 2 years, 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 3 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.
• Work will be primarily performed at Joint BioEnergy Institute (JBEI) — Bldg. 978, 5885 Hollis St., 4th floor, Emeryville, CA.

How To Apply
Apply directly online at http://50.73.55.13/counter.php?id=118283 and follow the on-line instructions to complete the application process.

Berkeley Lab (LBNL) 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.

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. Click here to view the poster and supplement: "Equal Employment Opportunity is the Law."