Bioenergy Crops Postdoctoral Scholar (Environmental Genomics & Systems Biology) - 84363
Organization: EB-Environmental Genomics & Systems Biology

Position Summary:
Berkeley Lab’s Environmental Genomics & Systems Biology Division (http://biosciences.lbl.gov/divisions/egsb/) has an opening for a Bioenergy Crops Postdoctoral Scholar. This position will be part of the Plant Systems Biology group led by Jenny Mortimer and part of the Feedstocks Division at JBEI. Specifically, the candidate will be involved in two projects relating to understanding and engineering the plant cell wall.

What You Will Do:
• Complete existing project on increasing mannan content of cell walls in Arabidopsis.
• Translate mannan-increase work to sorghum, JBEI’s model bioenergy crop.
• Investigate the link between glycosylated sphingolipids and cellulose biosynthesis in Arabidopsis and sorghum.
• 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 electronic scientific logbook of all experiments performed. Store all data generated in an organized and secure way. Ensure that others could duplicate results.

Additional Responsibilities as needed:
• Responsible for periodic reports to the director of the project, training research assistants and assisting others in the lab who require guidance with plant cell wall biochemistry, microscopy and molecular biology.
• Provide detailed six-monthly reports that can be used as part of a manuscript for peer reviewed journals.

What is Required:
• Recent PhD in plant biology, biochemistry, or related field within the last 3 years.
• Substantial knowledge of the plant cell wall and/or plant membrane.
• Ability to conduct experiments independently.
• Work with collaborators at remote physical sites, including in-person visits and regular virtual updates.
• Ability to conduct original work that meets the milestones of a larger project and scientific program.

Additional Desired Qualifications:
• Previous experience with confocal microscopy or other live-cell microscopy.
• Basic knowledge of glycobiology.
• Basic knowledge of sphingolipids or other glycosylated lipids.
• Previous experience with lipid analysis, including mass spectrometry.

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=118282 and follow the on-line instructions to complete the application process.

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