Post Baccalaureate Fellow (Advanced Light Source)-81268

Organization:
AL-Advanced Light Source

Description:
The Advanced Light Source (ALS) Postbaccalaureate Fellowship at Lawrence Berkeley National Laboratory (http://www.als.lbl.gov) offers a paid, full-time position with benefits that will give a unique opportunity to an individual who has received a Bachelor's degree within the past two years. The individual will be part of the hard x-ray microtomography program of the ALS (http://microct.lbl.gov), a world-class facility for sub-micron resolution 3D x-ray imaging for materials science, biology, and earth science applications.

As part of our team, you will learn how to develop software in support of both control systems (including a sample changing robot and a variety of scanning motors and cameras) and perform data analysis (including image processing on high performance computers and 3D visualization and simulation of large data sets).

You will have an opportunity to:
- Be a part of cutting edge technology.
- Learn from an experienced technical and scientific mentor in a R&D environment.
- Be a part of a world-renowned, international research institution that is associated with 13 Nobel Laureates.

Specific Responsibilities:
- Learn the Labview software currently used to run the hard x-ray microtomography instrument.
- Learn the Java, C++, python, and commercial image processing software currently used to analyze microtomography data.
- Collaborate with other scientists to determine current deficiencies in the software as well as new requirements. Based on this feedback, implement appropriate changes and developments as needed.
- Present results in group meetings, peer reviewed journals, posters, and other venues.
- Attend trainings to learn how to program and develop software

Required Qualifications:
- Bachelor’s degree within the past 2 years
- Minimum 3.2 GPA
- Excellent oral and written communication skills
- Experience as a programmer/software engineer in at least one programming language
- Desire to be involved in computer programming in a scientific environment

Additional desired qualifications:
- Experience with Labview
- Experience with Python, Java, or Matlab
- Experience operating and maintaining Unix or Linux systems
- Experience working with computer control of motors

The posting shall remain open until the position is filled, however for full consideration, please apply by July 15, 2015.

Notes:
- This is a 1 year term appointment.
- This position is open to college graduates who earned a bachelor’s degree within the past 24 months in a scientific discipline.
- Minimum GPA of 3.2 out of 4.0 is required to qualify.
- Please submit an official transcript from an accredited university, a statement of career goals and interests, and two references are required as part of the application.

This position requires completion of a background check.

Berkeley Lab 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. Click here to view the poster: Equal Employment Opportunity is the Law.