Research/Lab Aide
42800BR
Campus: Tempe
Research/Lab Aide

Job Description

The Biodesign Center for Applied Structural Discovery is seeking a Research Lab Aide to assist in the cultivation of the moss physcomitrella patens and perform a variety of non-technical and a limited number of routine laboratory and/or field duties.

Essential Duties

- Large scale cultivation of Physcomitrella patens moss in liquid BCD media
- Large scale cultivation of Physcomitrella patens moss in solid BCD agar plates
- Characterizing moss differentiation stage.
- Sequence analysis of moss genes and mutants.
• Isolating and characterizing pigment protein complexes from Physcomitrella.
• Generating and characterizing moss mutants.
• Must have an understanding of the molecular machinery involved in the light reactions of oxygenic photosynthesis

Minimum Qualifications

One year of laboratory/research, field research, technical maintenance or archaeological experience; OR, any equivalent combination of experience and/or education from which comparable knowledge, skills and abilities have been achieved.

Desired Qualifications

• Demonstrated knowledge of telescope mounting procedures depending on area of assignment.
• Demonstrated knowledge of general science.
• Experience in the use of laboratory and/or field equipment.
• Experience in following detailed instructions.
• Evidence of a Bachelors in Biochemistry

Working Environment

Activities are performed in an environmentally controlled office setting subject to extended periods of sitting, keyboarding, and manipulating a computer mouse; required to stand for varying lengths of time and walk moderate distances to perform work. May be required to wear personal protective equipment before entering laboratories including but not limited to lab coat, gloves, safety glasses, closed toe shoes, and respirator. Frequent bending, reaching, lifting, pushing and pulling up to 25 pounds. Regular activities require ability to quickly change priorities which may include and/or are subject to resolution of conflicts. Ability to clearly communicate verbally, read, write, see and hear to perform essential functions.

Department Statement

The Biodesign Center for Applied Structural Discovery is a research center within the Biodesign Institute that focuses on new innovative methods for the determination of the structure and dynamics of biomolecules, which are applied to the fields of energy conversion and medicine. The mission of the "Center for Applied Structural Discovery" is the elucidation of the structure and dynamics of biomolecules with direct application in bioenergy conversion and in medicine for the cure of diseases. The center follows a new concept where advances in technology are combined with structure-based rationale design of developing new catalysts for energy conversion and the structure-based design of novel drugs, leading to clinical studies. Thereby scientific discoveries are directly applied to advance in medical treatment of patients. Following this unique concept from structure to the patient, novel biophysical techniques will be developed that include high resolution electron microscopy and spectroscopy combined with visionary new techniques of femto- and attosecond Free Electron X-ray laser Science that will allow us to
determine molecular movies of biomolecules at work. The discovery of the structure and
dynamics of the major key player proteins in solar energy conversion and diseases will be the
major goals of the Center for Applied Structural Discovery.

ASU Statement

Arizona State University is a new model for American higher education, an unprecedented
combination of academic excellence, entrepreneurial energy and broad access. This New
American University is a single, unified institution comprising four differentiated campuses
positively impacting the economic, social, cultural and environmental health of the communities
it serves. Its research is inspired by real world application blurring the boundaries that
traditionally separate academic disciplines. ASU serves more than 90,000 students in
metropolitan Phoenix, Arizona, the nation's fifth largest city. ASU champions intellectual and
cultural diversity, and welcomes students from all fifty states and more than one hundred
nations across the globe.

ASU is a tobacco-free university. For details visit www.asu.edu/tobaccofree

AmeriCorps, Peace Corps, and other national service alumni are encouraged to apply.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative
Action Employer. All qualified applicants will be considered without regard to race, color, sex,
religion, national origin, disability, protected veteran status, or any other basis protected by law.

Employment Verification Statement

ASU conducts pre-employment screening which may include verification of work history,
academic credentials, licenses, and certifications.

Background Check Statement

ASU conducts pre-employment screening for all positions which includes a criminal background
check, verification of work history, academic credentials, licenses, and certifications.
Employment is contingent upon successful passing of the background check.

Instructions to Apply

Application deadline is 3:00PM Arizona time on the date indicated.

Please include all employment information in month/year format (e.g., 6/88 to 8/94), job title, job
duties and name of employer for each position.

Resume should clearly illustrate how prior knowledge and experience meets the Minimum and
Desired qualifications of this position.

ASU does not pay for travel expenses associated with interviews, unless otherwise indicated.

Only electronic applications are accepted for this position.