Organic Research Laboratory Peer Mentor, UAS 1574 (REVISED)
Chemistry & Biochemistry

Salary Range: $14.00 - $15.00/hourly

Work Schedule. This is a part-time position; Monday – Friday; hours to be determined; non-exempt position. This position is not eligible for benefits.

Essential Functions: Under the general supervision of the Bridges Program Director, the incumbent provides laboratory guidance and mentoring services to several undergraduate participants of the Bridges to the Future Program in the Chemistry and Biochemistry Department. Major functions include continued instruction in safe laboratory practice, continued instruction and guidance in numerous, specific laboratory skills applicable to a synthetic laboratory, including lab management, and instruction in use of numerous laboratory instruments.

Duties:

20% - Assist and guide long-form, oligomer organic chemistry syntheses, conducted under anhydrous conditions with specific regard to troubleshooting hygroscopic solvent interactions and prevention of polymeric side reactions or byproducts.

15% - Instruct and monitor newer students in general laboratory safety techniques with special regard for flammable solvents, volatile, carcinogenic, aromatic, and high molecular weight organic compounds.

15% - Provide instruction, assistance and execution of organic chemistry purification techniques associated with resorcin[4]arene molecules, including but not limited to recrystallization schemes, column and flash chromatography, automated combiflash chromatography, acid-base extraction, biphasic organic/aqueous extraction, analytical thin layer chromatography, etc.

10% - Provide instruction and assistance in working on both micro (sub 5mg or 1ml) organic synthesis scale, as well as preparation of compounds or stock solutions on a much larger macro scale, (1kg or 20L).

15% - Provide guidance in lab management techniques, purchase orders, lab cleanliness and maintenance, equipment troubleshooting, and support lab team members.

15% - Provide guidance in working with, repairing, troubleshooting Buchi Rotovapor RX-200, SciLogex MS7-H550-S Hotplates/stirplates, and Teledyne ISCO Combiflash Rf+.

5% - Other duties as assigned.

Requirements: The incumbent must have equivalent to six months of experience performing support services for an instructional program and involving such activities as preparing, producing, dispensing or
storing materials, supplies, and equipment; in hazardous waste disposal techniques for flammable solvents, volatiles, carcinogenic, aromatic, and high molecular weight organic compounds; and tutoring college level genera; chemistry, organic chemistry, biology, biochemistry, or mathematics. The incumbent must have interpersonal skills, working with a wide variety of cohorts, and researchers, especially those at a college student level. The incumbent must have the ability to support new organic chemistry laboratory student researchers in attempting fundamental and long form, reaction schemes, purifications, and in person benchtop/hood work with correct laboratory etiquette and conduct. The incumbent must also demonstrate an interest and or ability in working in a multicultural/multiethnic environment. Fingerprinting will be taken and checked by the California Department of Justice and the FBI. The incumbent may be responsible for the fingerprinting processing fee. A completed UAS employment application is required.

**Desired Qualifications:** Experience working with and tutoring underrepresented ethnic, economic, or religious groups in academia and the STEM fields. Participation in academic or institutional programs geared towards underrepresented ethnic, economic, or religious groups in academic and the STEM fields. Exceptional understanding of resorcin[4]arene, supramolecular and enforced cavity molecule structures and theory; and execution of organic purification techniques associated with resorcin[4]arene backbones.

Review of applications/resumes will begin February 28, 2019 and will continue until the position is filled; however, the position may close when an adequate number of qualified applications are received. You may apply to: uashr@cslanet.calstatela.edu or mail to: Cal State LA University Auxiliary Services Inc., 5151 State University Drive, GE 310, Los Angeles, CA 90032-8534

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