

Associate Researcher Senior-X-Ray Crystallography Scientist

Position Overview

Founded in 1865, KU is an R1-rated research university with more than 40 graduate programs ranked by U.S. News & World Report. KU enrolls 28,500 students and employs nearly 2,900 faculty members across five campuses (Lawrence, Kansas City, Overland Park, Wichita and Salina). The Office of Research oversees 10 university research centers, two state surveys and about a dozen core laboratories. Core lab personnel play a critical role in research success at KU – collaborating with faculty, students and industry researchers to acquire data, train users on instrumentation, and help plan experiments and interpret data. They also frequently co-author publications and serve as co-investigators on grant proposals.

Thanks in part to core lab support, faculty and staff on all KU campuses generated \$263.9 million in externally funded research expenditures in fiscal year 2019. Collectively, that activity fuels KU's mission to be an institution "making discoveries that change the world." It's also among the reasons KU retains membership in the prestigious Association of American Universities — one of just 36 U.S. public institutions among 65 that are transforming lives through education, research and innovation.

The KU Office of Research seeks a Ph.D. scientist with expertise in small molecule X-ray crystallography to fill a full-time, benefit's eligible unclassified professional staff position as an Associate Researcher Senior, contingent upon available funding. The scientist will provide small molecule X-ray crystallography services to KU and outside users. Duties include operation and maintenance of X-ray diffractometers, training and assisting users, and providing crystal structure determinations to KU and outside users. The position will be housed in the Protein Structure and X-Ray Crystallography Lab, a centrally-funded KU core research laboratory, and will report to the director of the Protein Structure and X-Ray Crystallography Lab.

As a premier international research university, The University of Kansas is committed to an

open, diverse, and inclusive learning and working environment that nurtures the growth and development of all. KU holds steadfast in the belief that a variety of values, interests, experiences, and intellectual and cultural viewpoints enrich learning and our workplace. The Office of Research actively seeks applications from members of groups underrepresented in higher education.

The successful candidate must have valid U.S. work authorization prior to the start date of appointment.

Job Description

30% - Execute the technical and scientific aspects of X-ray crystallography services provided by the Protein Structure and X-Ray Crystallography Lab. These include working with users, running the single crystal and powder diffractometers, solving small molecule crystal structures, report preparation, ordering parts and supplies, and arranging for service/maintenance on equipment.

20% - Collaborate and assist with all the appropriate aspects of research projects of faculty, staff, and students requiring molecular structure determination. These aspects include sample preparation, data collection, structure solution, and report generation, as well as, when necessary, assisting faculty, staff, and students with interpretation of crystallographic data and the preparation of grant applications. This can include serving as co-author on manuscripts and co-investigator on grant proposals as appropriate.

20% - Work with the Protein Structure and X-Ray Crystallography Lab director in organizing, maintaining, and operating the hardware, software, facilities, and organizational resources of X-ray crystallography services, including working with vendors to fix or purchase equipment.

15% - Work with the Protein Structure and X-Ray Crystallography Lab director on the financial management of X-ray crystallography services in the lab. This includes evaluating core lab rates for users, invoicing users for services rendered, and reporting metrics to the Office of Research.

15% - Train students and research staff in the use of the laboratory's equipment and in the

determination of molecular structures.

Position Requirements

This position will be a hybrid of on-site work and telework as deemed by supervisor.

Required Qualifications

1. PhD degree in Chemistry or related field.
2. Five years of related work experience as a postdoctoral researcher or in industry.
3. Experience in operation, maintenance, and support of single crystal and powder X-ray diffractometers, including hardware and software, as evidenced in application materials and interview.
4. Experience in the determination of small-molecule organic/inorganic/organometallic crystal structures by single-crystal X-ray methods and analysis of powder diffraction patterns, as evidenced in application materials and interview.
5. Excellent organizational skills as demonstrated by application materials.

Preferred Qualifications

1. Experience working in a core research laboratory setting.
2. Ability to work collegially in a collaborative research environment, as evidenced by application materials and in-person interview.
3. Excellent verbal communication skills as evidenced by in-person interview.
4. Experience working with a diverse group of scientists on a variety of crystallographic problems.
5. Experience with managing budgets, purchasing, and invoicing in a core lab setting.

Additional Candidate Instructions

A complete application includes an online application, cover letter detailing your interest in the position and how it fits with your career goals, resume highlighting pertinent experience relative to the required and preferred qualifications and contact information for three professional references. Only complete applications will be considered.

Application review begins Feb 1, 2021 and will continue until a successful candidate has been identified.

Contact Information to Applicants

Cari Alfery

carip@ku.edu

Advertised Salary Range

70,000.00 - 90,000.00

Work Schedule

Monday - Friday, 8 hours daily

Application Review Begins

Monday, February 1, 2021

Anticipated Start Date

Monday, March 15, 2021