

Job Description for a Beamline Scientist for the Advanced Crystallography

The Pritzker School of Molecular Engineering (PME) at the University of Chicago is seeking a Beamline Scientist in the area of single crystal small molecule X-ray diffraction to join NSF's ChemMatCARS, a national synchrotron X-ray user research facility at Sector 15 of the Advanced Photon Source (APS) at Argonne National Laboratory (ANL). The successful applicant for this full-time scientific position will be responsible for providing support for scientific users conducting research at ChemMatCARS. The candidate is also expected to initiate and engage in collaborative research with ChemMatCARS users and staff, and independent research is encouraged. Additional responsibilities include development and maintenance of the advanced crystallographic instrumentation as well as participation in the development and maintenance of the beamline control system.

This position requires a Ph.D. in the Physical Sciences, with a minimum of two years of synchrotron experience in conducting independent experimental research in advanced crystallography at synchrotron facilities. Expertise in the full range of synchrotron X-ray techniques, including the use of high energy X-rays (3 keV to 70 keV), for studying dynamic, photo crystallography and time-resolved crystallography or high-pressure studies is especially beneficial. Strong computer programming and instrumentation interface skills in Python and C programming languages, and knowledge of Linux-based operating systems are highly desirable. Excellent verbal and written communication skills are critical to planning work flow, supporting user groups, disseminating the work of ChemMatCARS in peer-reviewed and other publications, presenting findings at national meetings, planning and conducting workshops to train new scientific users and students in X-ray diffraction and scattering techniques, as well as publicizing and communicating the research and capabilities of ChemMatCARS to a broad audience including non-specialists during outreach activities. The ability to work well as a team member and independently is required, as is the capacity to work in an environment with strict safety regulations. The successful applicant must satisfy the requirements for access to Argonne National Laboratory.

Applications should include a letter of intention, a research statement, a CV, and three reference letters directly submitted by the referees.

Candidates must apply on line at <http://jobopportunities.uchicago.edu>, (Requisition # JR05879), which provides detailed information on job description and required qualifications. The University of Chicago is an affirmative action/equal opportunity employer.