The Northeastern Collaborative Access Team (NE-CAT), located at the Advanced Photon Source at the Argonne National Laboratory in suburban Chicago, is seeking applicants for a beamline scientist position. The primary responsibilities of the staff scientist will be to provide user training and support using NE-CAT’s X-ray beamlines; assist in setting up experiments; provide crystallographic expertise to ensure the highest quality data and structures; and contribute to the continued development of software tools.

**Duties and Responsibilities:**
- Provide user training and support; both onsite and via remote conferencing. This involves work nights and weekends, approximately nine months of the year, when the APS has run cycles and is open for data acquisition. During these months, the staff scientist will rotate assignments with other staff members to provide support 24 hours a day, seven days a week.
- Test, modify or develop crystallographic software.
- Test and debug new beamline software and hardware. Evaluate beamline performance to produce optimum data. Contribute to the development of beamline troubleshooting procedures.
- Use knowledge of synchrotron beamline optics and experiment-specific topics to develop data collection and structure determination procedures.
- Take part in development of real time data analysis software for the beamline data acquisition software RAPD.
- Collect data on macromolecular crystals for phase determination, model building and refinement.
- Participate in cooperative research in which the staff scientist's expertise is combined with that of members of the NE-CAT consortium institutions or general users to improve the processes of protein purification, crystallization, and determination of macromolecular structures.
- Publish results and help prepare presentations and documentation to disseminate information about advances to the macromolecular crystallography community.

**Related Duties:**
- Provide support of sample automounter development.
- Provide advice and consultation to users and technical support staff.
- Assist in preparation of research grant proposals and annual reports.
- Attend and participate in seminars and scientific meetings.
- Recommend equipment and supplies necessary to further research associated with the mission of the facility.
- Help supervise technicians who will develop user safety procedures, calibration procedures, data collection procedures, and both on-line and standard documentation.
- Any other beamline/facility related duties assigned by the supervisors.

**Qualifications:**
- Doctorate in Chemistry, Biochemistry, Physics, Biophysics, or a related field.
- At least three years doctoral or post-doctoral experience involving macromolecular crystallography.
• An extensive record of publications of research in the scientific literature.
• Experience with synchrotron X-ray data collection and experience with operating synchrotron beamlines is a plus.

For more information about NE-CAT, please see our website: https://necat.chem.cornell.edu

This is a 12-month benefits eligible full-time (100%FTE) appointment term which is renewable depending on funding and performance.

Salary: commensurate with experience

Start: August 1, 2019

Interested candidates should submit a cover letter, curriculum vitae, copies of relevant publications, and contact information for three references electronically to Academic Jobs Online at https://academicjobsonline.org/ajo/jobs/14009. Applications will be reviewed as they are received and will be accepted until the position is filled. Please direct questions to Frank Murphy, NE-CAT Associate Director (fmurphy@anl.gov).

Cornell is an equal opportunity, affirmative action educator and employer.