

Postdoctoral Beamline Scientist for MRCAT at the Advanced Photon Source

The Materials Research Collaborative Access Team (MRCAT) at Illinois Institute of Technology operates world-class x-ray absorption spectroscopy beamlines 10ID and 10BM at the Advanced Photon Source (APS), Argonne National Laboratory (near Chicago, IL). The facility is used by scientists and students from university, government, and industrial labs around the world. These groups use MRCAT to conduct research in areas from catalysis to materials science to environmental science.

MRCAT is seeking a Ph.D. level scientist to provide beamline support for Collaborative Access Team members and General Users under the direction of the MRCAT Director and senior beamline scientists. You will serve as a postdoctoral beamline scientist, supporting in-person and remote/mail-in users of the MRCAT facility with a particular focus on in situ and ex situ catalysis experiments. As part of the MRCAT team you will have responsibility for maintaining the state-of-the-art sample preparation and sample delivery and characterization equipment. You will also collaborate scientifically with users and other beamline staff.

Responsibilities:

- Support an active user community, including users from academia, government, and industry, using x-ray absorption spectroscopy and hard x-ray photoemission techniques.
- Collaborate scientifically with users, including on experimental design, data analysis and interpretation, and publication.
- Contribute to the development and implementation of improvements to the x-ray absorption spectroscopy beamlines.
- Train students and new users in data collection and analysis for x-ray absorption spectroscopy.

Essential qualifications:

- Ph.D. or equivalent in physics, chemistry, chemical engineering, or a related field with experience in x-ray absorption spectroscopy experiments and data analysis.
- Interest and ability to work in a fast-paced collaborative research environment.
- Record of scientific publications.
- Ability to work and communicate effectively with technical experts, operations staff, and researchers at all levels, including students, postdocs, and facility users.

Preference will be given to candidates with significant experience in hands-on in situ catalysis experiments using synchrotron radiation and x-ray absorption spectroscopy. Experience with x-ray photoemission is a plus but this training will be provided on the job.

For further information about the position, please contact MRCAT Director Carlo Segre (segre@iit.edu). Applications received by December 10th are guaranteed full consideration, but applications will be accepted until the position is filled.

Applicants should send:

- A cover letter
- A curriculum vitae
- A list of publications (can be included in the CV)
- The names and contact information for three references

to Carlo Segre (segre@iit.edu).

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