Postdoctoral Scholar

The University of Chicago, GeoSoilEnviroCARS seeks a Postdoctoral Scholar to conduct mineral-fluid interface studies at the GSECARS beamlines at the Advance Photon Source. The candidate will be responsible for conducting primary research on the surface chemistry of minerals relevant to energy, geochemistry, and the environment using synchrotron-based x-ray techniques including crystal truncation rod (CTR) scattering, x-ray reflectivity, grazing incidence spectroscopies (e.g., XRF, XANES, EXAFS) and diffraction. They will develop specialized sample environments for these measurements, aid with the development of software for data collection and analysis, and participate in some user support activities at GSECARS facilities. They will be expected to present results at scientific conferences and publish in peer reviewed journals. The initial appointment will be for one year, with the possibility of extension contingent on progress and available funding.

Requirements include:

- A PhD in Earth Sciences, Physics, Chemistry, Materials Science, or a related field at the time of appointment
- The ability to conduct research independently
- Experience with the collection and analysis of x-ray scattering data, e.g. CTR, x-ray reflectivity, and single-crystal or powder diffraction
- Experience with surface and interface analysis
- Laboratory experience with aqueous chemistry
- Experience with the operation and maintenance of scientific instruments (e.g. XRD, XRF, SEM, TEM, NMR, FTIR, Raman, etc.)
- Experience with computer programming for scientific analysis using Python, MATLAB, Java, C++, or other relevant languages

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange.

The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email equalopportunity@uchicago.edu with their request.

Interested candidates should send a CV and cover letter to stubbs@cars.uchicago.edu