



**POSTDOCTORAL SCHOLAR POSITION IN
X-RAY ABSORPTION SPECTROSCOPY**



A Postdoctoral Scholar position will be available in the Department of Chemistry at the University of California, Berkeley. A recent Ph.D. and experience in synchrotron-based X-ray absorption spectroscopy (XAS: XANES, EXAFS) and XAS data analysis are required. Experience with *f*-element electronic structure, computer programming in Fortran and/or Python, actinide/lanthanide chemistry, nuclear and radiochemistry, radiation detection techniques, or closely related fields is desirable.

The Nitsche group investigates radionuclide (Pu, Eu, Np, Am) sorption on solid surfaces, such as functionalized mesoporous materials and iron and manganese minerals. The speciation and local coordination environment are examined with XAS. Data is collected at the Stanford Synchrotron Radiation Light Source (SSRL) and currently analyzed with the data analysis suite RSXAP. The successful postdoctoral candidate will work with a graduate student team in the laboratory to prepare materials for XAS measurements, which will involve materials synthesis and characterization, loading with radionuclides, and the determination of sorption properties. The candidate will work on beamline setup and data collection at SSRL, perform XAS data and multi-component analyses, and give instruction of data analysis to the graduate student team. The candidate will also participate with visiting and staff scientists, postdoctoral fellows, and students on scientific research; provide guidance to and foster the development of graduate and undergraduate students; publish experimental results in scientific journals and present results at scientific meetings; and maintain a safe working environment in the laboratory.

This appointment starts January 1, 2012, or earlier, and is for one year, with the possibility for renewal thereafter. The annual salary range is \$54,826 to \$58,116, depending on experience and qualifications.

Qualified applicants must submit a curriculum vitae and arrange to have two letters of recommendation sent to Professor Heino Nitsche (hnitsche@berkeley.edu), University of California, Berkeley, Department of Chemistry, 446 Latimer Hall, Berkeley, CA 94720-1460. This posting will be open until the position is filled.

The University of California, Berkeley is an Equal Opportunity/Affirmative Action Employer.