



**POSTDOCTORAL SCHOLAR POSITION IN
LASER FLUORESCENCE 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 laser spectroscopy, including laser-induced TRLFS a required. Experience with experimental actinide/lanthanide solution and condensed phase chemistry, and handling of radioactive materials including nuclear counting, chemical analysis, and standard chemical laboratory technique or closely related fields is desirable. Candidate should be able to obtain controlled access to U.S. DOE National labs.

Participate in an interdisciplinary research program investigating the separation of lanthanides/actinides by a variety of techniques such as liquid-liquid extraction, functionalized solid support-solution separation, and ion-exchange. Develop an understanding of actinide/lanthanide solution complexes and species at liquid-liquid and aqueous/solid interfaces. Perform experiments using laser induced time-resolved fluorescence spectroscopy (TRLFS). Work with radioactive materials in glove boxes on a routine basis. Publish experimental results in scientific journals and present results at scientific meetings with members of the research team. Maintain a safe working environment in the laboratory and insure the proper disposition of waste materials. Share responsibility for the continued development of the laser spectroscopy laboratory and implementation of new laboratory techniques. Assume co-responsibility for the development of new research directions in interdisciplinary actinide/lanthanide separation chemistry. Assist in the preparation of research proposals. Participate with visiting and staff scientists, postdoctoral fellows and students on scientific research, 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.