

## **Research and Crystallography Postdoctoral Position at University of Southern California**

### **Responsibilities**

The X-ray Diffraction Facility in the Department of Chemistry and Biochemistry at USC is in the process of installing a Rigaku Synergy S diffractometer, to compliment the Rigaku Ultima IV and Miniflex Powder Diffractometers. We are seeking a manager for this X-ray facility who will work halftime managing the facility and halftime doing research in one of our faculty members' labs. The x-ray facility managerial part of the position will involve for user training and support, providing daily support and supervision for instrument maintenance and repair for the SynergyS. Note that this is a new instrument, so we do not expect much in the way of repair. The powder X-ray instruments are managed by an existing staff member. The postdoc/manager will actively cultivate and work with internal users including providing solution of structures with data interpretation if needed, as well as conducting fee-based data acquisition and analysis services for external users, including those from local industry and nearby academic institutions. The facility will be administered by Professor Mark Thompson, who will work closely with the postdoc manager in all of the aspects of their job. We envision the x-ray facility manager position as a roughly halftime position, since most of our structures are solved by graduate students on their own. The manager's help will be needed for new students and problematic structures. The other half of the postdoctoral position will involve research in one of the inorganic or organic chemistry faculty's labs that make use of the x-ray facility. The choice of which lab the candidate will do the research portion of the position in will be made based on a mutual decision of the candidate and the faculty member. The candidate is encouraged to explore the research opportunities at USC to look for a good fit and include these potential labs in the cover letter for the application. In addition to the research part of this postdoctoral position, the candidate will have the opportunity to contribute to research projects directly associated with usage of the facilities.

### **Minimum Qualifications**

A PhD in chemistry with direct experience with single crystal X-ray diffraction. The individual must be fluent in English (both written and spoken).

### **Preferred Qualifications**

A PhD in chemistry with significant experience with X-ray diffraction including solving challenging crystal structures.

### **Minimum Salary**

\$62,400

### **Application Deadline**

Review of applications will begin as applications are received and continue until the position is filled.

### **Application Instructions**

Applicants must combine all application materials (cover letter, resume, and list of three references with contact information) into one PDF or Microsoft Word document and send via Email. Submit completed applications to the attention of Professor Mark Thompson at [PD.search@chemmail.usc.edu](mailto:PD.search@chemmail.usc.edu).