

Subject: Postdoctoral Opportunity in X-ray Crystallography at UC San Diego

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We are seeking to fill one, and possibly two, postdoctoral positions within the X-ray Crystallography Facility at the University of California, San Diego. The position is for a full-time crystallography associate who will integrate into the day-to-day operations of the facility. The duties of the position will ultimately include:

- 1) Data acquisition and structure solution on a range of single-crystal and powder samples from academic and industrial partners.
- 2) Training, support and oversight of UC San Diego students and postdocs for data acquisition and structure solution.
- 3) Routine and advanced maintenance of single-crystal and powder X-ray diffraction instrumentation and computing facilities.
- 4) Crystal-growth experiments for organic, inorganic and pharmaceutical compounds.

The X-ray Crystallography Facility at UC San Diego is a state-of-the art instrumentation facility with full-time technical staff and faculty oversight. The facility currently features nine X-ray diffraction instruments for high-throughput analysis of small-molecule, macro-molecule and powder samples. Diffraction capabilities are derived from a combination of Mo, Cu and Ga sealed-tube, rotating-anode and metal-jet sources, as well as cutting-edge X-ray detectors. The facility also maintains a robust user-focused training program for UC San Diego students and postdocs, and visitors from domestic and international institutions.

The ideal candidates should have experience with single-crystal and/or powder diffraction data acquisition and structure solution. Experience with the maintenance of scientific/research instrumentation, and/or proficiency in the upkeep and manipulation of advanced electronics, is also highly desirable. Experience with Rietveld or Multipole refinement is a plus. We intend for this opportunity to be especially appealing to individuals who desire to become crystallography facility directors as a career path.

Interested candidates should forward a cover letter, CV and the names of at least two professional references via email to Prof. Joshua Figueroa (jfig@ucsd.edu). Female candidates and individuals with under-represented persons status are especially encouraged to apply. Applications will be reviewed as they are received.

Thank you for your help identifying suitable candidates.

Best regards,

Joshua S. Figueroa and Arnold L. Rheingold

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