

Postdoctoral Position in Advanced EPR in the Department of Chemistry and Biochemistry at the University of California, Santa Cruz.

The Millhauser Laboratory at the University of California, Santa Cruz invites applications for the position of postdoctoral scholar. The selected individual will use, oversee and maintain state-of-the-art Electron Paramagnetic Resonance (EPR) equipment, with research focused on collaborative studies among California Bay Area universities. The position is for one year but renewable for two to three years, contingent on research progress and availability of funds.

Background The Millhauser lab will soon install a new, NIH-funded Bruker Elexsys E580 X-band and Q-band pulsed EPR spectrometer to facilitate Double Electron-Electron Resonance (DEER) studies relevant to important problems in structural biology. The instrument will be equipped with an arbitrary waveform generator (AWG), cryogen-free temperature controller and a 300 W Q-band high power amplifier. The instrument is meant to serve researchers at UCSC, as well as UC Davis, Stanford, UC Merced and UC San Francisco. It will be the responsibility of this postdoctoral researcher to facilitate EPR DEER experiments with students and postdocs at these nearby universities. Beyond EPR experiments, the individual will also be responsible for managing the instrument calendar, helping researchers produce spin labeled proteins using conventional mutagenesis, as well as non-native amino acid incorporation. In addition, the candidate will have ample time to carry out their own research contributing to the Millhauser lab's work aimed at understanding the structure and function of the prion protein.

Required Qualifications A Ph.D. in Chemistry, Biochemistry or related field. Candidates must have prior experience with DEER EPR, analysis of complex DEER signals, as well as protein chemistry, protein mutagenesis and spin labeling. Excellent writing skills are also required, as evidenced by first author publications.

Preferred Qualifications Experience with incorporation of non-native amino acids; organic chemistry for the development of novel spin labeling approaches; computational molecular dynamics skills for determining protein structures with DEER distance restraints; ability to carry out other pulsed EPR experiments including ESEEM and HYSCORE; ability to understand and program new EPR pulse sequences.

Salary Commensurate with qualifications.

Position Available No earlier than October 1, 2018 and no later than January 31, 2019.

To Apply Email a cover letter, CV and contact information for three references to Professor Glenn Millhauser, glennm@ucsc.edu. Applications not meeting the Required Qualifications (above) will not be considered.

Laboratory Website <https://millhauser.chemistry.ucsc.edu>

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status.