Postdoctoral Positions in Macromolecular Assembly

Oregon State University
Corvallis, OR

Several postdoctoral positions are available immediately for conducting NIH and NSF funded studies focused on the macromolecular assembly, structure and function of the multi-subunit motor protein dynein and the role of protein disorder in regulation of diverse assembly processes \textit{in vivo} and \textit{in vitro}. We are seeking highly motivated candidates who are trained either in solution nuclear magnetic resonance with demonstrated expertise in biomolecular, triple-resonance NMR, complete assignments, and the solution structure determination of large proteins or in X-ray crystallography of large protein complexes.

In our research we use a combination of NMR and X-ray crystallography and other biophysical methods, including isothermal titration calorimetry, circular dichroism and fluorescence spectroscopy, surface plasmon resonance and mass spectrometry. The Barbar lab is a major user of an in-house Bruker 600 MHz spectrometer with access to 700-900 MHz NMR instruments when needed. In addition, a large part of our research is focused on developing methods for production of difficult to express and purify proteins, and for conducting in vivo assays. This research program will therefore offer an exciting opportunity for candidates who seeks a career in structural biology/NMR spectroscopy at the interface of cell biology.

Qualifications: Doctoral degree in Biochemistry or related fields. Preference given to candidates with interest and/or experience in molecular and cell biology and eukaryotic gene expression.

Application instructions: Please send CV and three references to Professor Elisar Barbar via email: barbare@science.oregonstate.edu
Lab website: http://www.science.oregonstate.edu/~barbare/