CHESS
CORNELL HIGH ENERGY SYNCHROTRON SOURCE

Postdoctoral Opportunity in Structural Biology

February 2020

Cornell University embraces diversity and seeks candidates who will contribute to a climate that supports students, faculty and staff of all identities and backgrounds. If you don't meet 100% of job qualifications, but see yourself contributing, please submit an application. We strongly encourage individuals from underrepresented and/or marginalized identities to apply. We're a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

Position: Postdoctoral Associate

Project: Applications of Pressure to Structural Biology

Disciplines: Biophysics, Biotechnology, Molecular Biology, Structural Biology, Applied Physics

The Macromolecular Diffraction and High Pressure Biology resources at the Cornell High Energy Synchrotron Source (MacCHESS and CHEXS/HP-Bio, respectively) have an opening for a Postdoctoral Associate to develop applications of high pressure to answer biological questions concerning enzyme mechanisms, protein folding, adaptation to extreme environments, and the origin of life. The primary method to be used is pressurization of macromolecular crystals in a diamond anvil cell (HP-MX), but other techniques such as high-pressure small angle X-ray scattering (HP-SAXS) will also be available.

A Ph.D. degree in structural biology, biophysics, or a related field is required. Experience in crystallography is highly desirable, and experience working with samples in "non-standard" environments is a plus. The ability to identify suitable systems for study, through researching previous work and establishing suitable collaborations, is essential. In addition to pursuing his/her own study of pressure effects, the successful candidate will be expected to assist research groups seeking to use high-pressure techniques at CHESS for their work. Appointments are for one year at a time and can be renewed for up to 3 years total, contingent upon availability of funds and employee performance.

The Cornell High-Energy Synchrotron Source (CHESS) serves a world-wide user base of structural biologists, chemists, physicists, and engineers. MacCHESS is an NIH-supported National Resource providing support for structural biology at CHESS, and HP-Bio is part of the NSF-supported CHEXS resource that operates several beamlines at CHESS.

CHESS is a heavily team-oriented environment. Good, clear communication skills are a must, including fluency in the English language.

Applications should be submitted at https://academicjobsonline.org/ajo/jobs/18189 and should include a cover letter, a CV, a list of publications, and a detailed summary of research experience and interests. Applicants must arrange to have at least three letters of recommendation uploaded, as per instruction on the academicjobsonline website. For information about the position, contact Dr. Marian Szebenyi at dms35@cornell.edu.

Cornell provides great benefits that include comprehensive health care options, generous retirement contributions, educational benefits (Employee Degree, Tuition Aid, Cornell Children's Tuition Assistance Programs), access to wellness programs, and employee discounts with local and national retail brands. Our leave provisions include three weeks of vacation and 13 holidays, including winter break from December 25th through January 1st.

Cornell has been nationally recognized as an award-winning workplace for our health, wellbeing, sustainability, and diversity initiatives. For more information, follow the link: Benefits at Cornell**.**