

June 8th, 2022

Postdoctoral Associate

Rutgers University, Dept. of Chemistry and Chemical Biology
Piscataway, NJ

Description

The laboratory of Dr. Jean Baum at Rutgers University is seeking highly motivated candidates for an NIH-funded postdoctoral position available immediately. Current projects include investigation of molecular mechanisms of protein aggregation, amyloid formation and liquid-liquid phase separation involved in neurodegeneration. The lab uses a multifaceted approach that integrates advanced biomolecular solution- and solid-state NMR spectroscopy, AFM, and other biophysical techniques with molecular biology, cellular assays, and computational methods. This allows us to probe key interactions and dynamics across a range of spatial dimensions, from the atomic level to the nanoscale. Further details can be found at: baum.rutgers.edu. Facilities include the Rutgers High Field NMR Facility, which houses four high field NMR spectrometers with state-of-the-art capabilities for solution and solid-state NMR applications, a state-of-the-art Cypher atomic force microscope with real-time imaging capabilities and a SYNAPT ion-mobility mass spectrometer.

The ideal candidate will be experienced in biomolecular NMR (solution and/or solid state) and other biophysical techniques and should have the ability to work independently and as part of a team. The Baum lab is highly interdisciplinary with collaborators with expertise in computational chemistry, protein design, mammalian and yeast cell culture in the School of Arts and Sciences, School of Engineering and Rutgers Biomedical Health Sciences. Applicants should email Dr. Jean Baum at jean.baum@rutgers.edu and include a CV, the names and contact information for three referees, and a cover letter describing their qualifications, research experience, and interest in the lab.

Requirements

- Ph.D. in Chemistry, Biophysics, Structural Biology, or other related scientific discipline.
- Demonstrated experience in biomolecular NMR (solution and/or solids) and other biophysical techniques including AFM and mass spec.
- Proficiency in recombinant protein expression and purification from *E. coli*.
- Excellent organizational and project management skills.
- An excellent record of publication.