

Biomolecular NMR

Nico Tjandra

The Structural Biophysics Section of the National Heart, Lung, and Blood Institute (NHLBI) at the NIH seeks outstanding postdoctoral candidates with experience in advanced NMR techniques who are interested in developing innovative approaches to solving problems in structural biology. Candidates should have a Ph.D. in physics, chemistry, or biochemistry and the skills to work in a multidisciplinary environment. Previous knowledge in protein expression and purification would be advantageous but not essential. The responsibilities of the fellow include developing alternative solution NMR methods for structure determination, improving NMR relaxation data analysis, and preparing proteins for structural studies with particular focus on weak biomolecular interactions. The Section has strong research programs in apoptosis, cytoskeleton regulation and retroviral replication.

The Structural Biophysics Section has excellent NMR instrumentation, including dedicated 600 MHz and 800 MHz spectrometers, as well as shared access to a 900 MHz spectrometer, all equipped with cryogenic probes. In addition, there is access to modern core facilities within the NHLBI such as the Biochemistry facility (for protein identification and separation), Biophysics core (characterization of proteins and their complexes), Light Microscopy core, and Electron Microscopy core. The large NMR community at the NIH has outstanding research and development programs that provide an excellent training environment for postdoctoral fellows.

This position is fully funded by the NIH. Interested candidates can email a cover letter, CV with bibliography and the names of three references to:

Nico Tjandra
Laboratory of Molecular Biophysics
National Heart, Lung, and Blood Institute
National Institutes of Health
50 South Drive, Room 3503
Bethesda, MD 20892
301-402-3029
tjandran@nhlbi.nih.gov