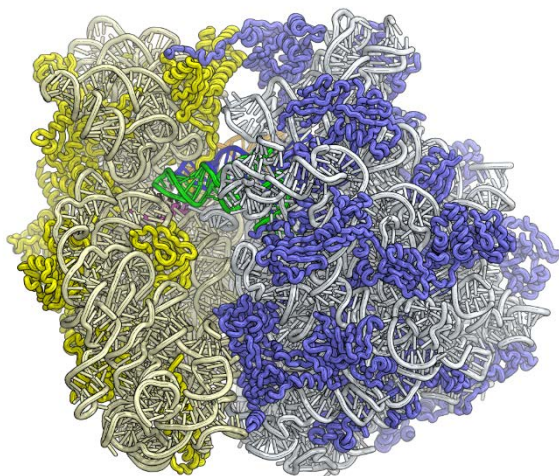


NIH-Funded Post-Doctoral Position in Structural Biology at the University of Illinois to Study the Ribosome Structure



The Polikanov Laboratory at the University of Illinois at Chicago (IL, USA) is looking for a talented, skillful, and highly motivated researcher to fill the **NIH-funded Post-Doctoral Scholar** position to study the structure and function of the bacterial ribosome.

The research in the Polikanov Laboratory is focused on understanding the basic principles of protein synthesis in bacteria, the modes of action of ribosome-targeting antibiotics, and the mechanisms of drug resistance at a structural level. More information about Dr. Polikanov research can be obtained from the most recent publications

(<https://www.ncbi.nlm.nih.gov/sites/myncbi/yury.polikanov.1/bibliography/50395623/public/?sort=date&direction=descending>) or found on the laboratory web-page (<https://bios.uic.edu/bios/people/faculty/yury-polikanov>). The successful candidate will be involved in the determination of high-resolution structures of ribosome functional complexes with various protein translation factors, tRNAs, and antibiotics using macromolecular X-ray crystallography and potentially cryo-EM techniques.

Basic qualifications:

- PhD in chemistry, biochemistry, biophysics, or a related field;
- Practical skills with the most standard methods currently used in molecular biology, and biochemistry (such as protein expression, purification);
- Experience in structural biology (cryo-EM or X-ray crystallography);
- Experience in RNA biology field is desired;

The successful candidate is also expected to:

- Act independently in terms of planning and executing the experiments;
- Compile, analyze, and prepare data for publications;
- Write manuscripts;
- Assist with training of graduate and undergraduate students.

Review of applications will begin immediately and will continue until the position is filled. Interested candidates should send their CV, cover letter, and contact information for three references directly to Dr. Polikanov at yuryp@uic.edu. **In the cover letter, the applicant should describe how his/her previous research accomplishments and scientific interests fit with the scope of the research in the Polikanov research group.**