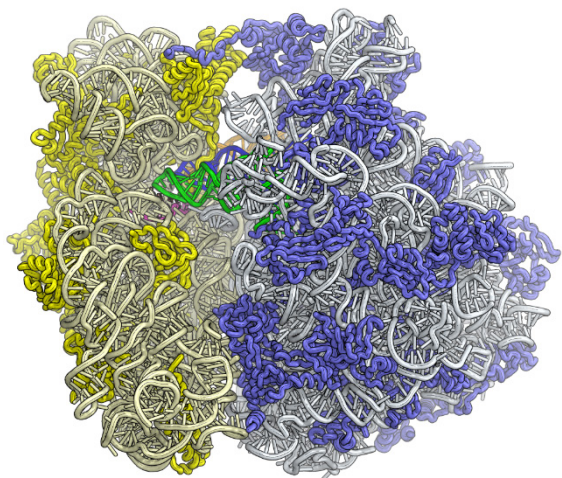


# NIH/NSF-Funded Post-Doctoral Positions in Structural Biology at the University of Illinois at Chicago to Study the Ribosome



Prof. Polikanov Laboratory at the University of Illinois at Chicago (IL, USA) is looking for a talented, skillful, and highly motivated researchers to fill the **NIH/NSF-funded Post-Doctoral Scholar** positions 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 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. Yury Polikanov at [yuryp@uic.edu](mailto:yuryp@uic.edu). **Cover letter should be describing how previous research accomplishments and scientific interests of a candidate fit with the scope of the research in the Polikanov Lab.**