

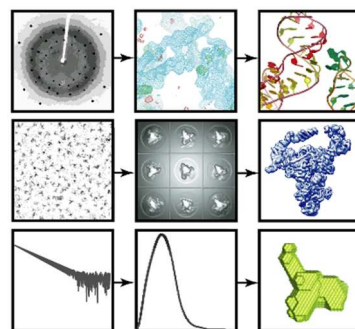
Postdoctoral researcher position experimental structure determination of large RNAs and RNPs

Laboratory of Bioinformatics and Protein Engineering at the International Institute of Molecular and Cell Biology (IIMCB), Warsaw, headed by Prof. Janusz M. Bujnicki, offers a position for a **Postdoctoral Researcher** motivated to develop a career in an interdisciplinary and international team.

Deadline for applications is **September 14th, 2019**. Preferred job starting date is **October 2019 (or as soon as possible)**.

As a postdoctoral researcher, you will be involved in interdisciplinary experimental structural biology analyses.

The proposed research project is focused on the integrative determination of structures for large RNAs (in particular lncRNAs and viral RNAs) and their complexes with proteins. We are using X-ray crystallography and SAXS, and extending our work to include AFM and cryoEM, and we are developing new approaches to determine RNA and RNP structures with the combined use of experimental methods and computational modeling. We are now looking for a postdoctoral researcher experienced in at least one key technique of macromolecular structural biology, interested in combining various experimental methods for macromolecular structure determination. We encourage applications from candidates at any stage of their post-doctoral career, in particular from those interested in submitting their own fellowship/grant applications and in training towards scientific independence. We are ready to discuss possibilities of a long-term collaboration, and possibly the role of a senior scientist.



The institution: International Institute of Molecular and Cell Biology in Warsaw www.iimcb.gov.pl is one of the top-ranked (A+) Polish research institutes, which provides a stimulating and interdisciplinary research environment. Research topics at IIMCB cover the wide area of molecular, cellular, and structural biology. The Institute is equipped with state-of-the-art technology, has excellent core facilities and supportive administration. IIMCB benefits from numerous generous funding schemes for basic research through grants from international and national sources. The institute is located in a large biomedical campus that offers access to equipment and various possibilities of training and collaboration. We provide opportunities for extensive interdisciplinary collaborations within the team and in the institute, as well as external and international collaborations. The working language of the institute is English.



The team: Our group <http://genesilico.pl> is highly interdisciplinary and international. We combine various approaches for studying the structures and mechanisms of action of biological macromolecules, in particular RNA, as well as macromolecular complexes involving nucleic acids, proteins, and small molecules. Our key strength is in the integration of various types of theoretical and experimental analyses. On the one hand, we use biochemical and biophysical approaches to characterize the structures and functions of our target molecules experimentally. On the other hand, we develop and use computer programs for data analyses, in particular for modeling based on heterogeneous, low-resolution, and noisy experimental data. We also use theoretical predictions to guide knowledge-based design and engineering of molecules with new structures and functions.



This position is ideal for you if you have solid experience (documented in publications) in at least one of the following techniques: 1) X-ray crystallography, 2) SAXS 3) cryo-EM, 4) AFM, and if you wish to learn new techniques of integrative structural biology, including computational modeling methods. You are expected to have a strong publication record, which includes at least one first-author publication in a very good international peer-reviewed journal. You are expected to take a lead and apply for fellowship/grant funding within the first year of your employment, with a project that combines the initial research area (structural analyses of large RNAs) with your own ideas. We are particularly interested in candidates interested in the gradual development towards scientific independence (next stage: junior group leader elsewhere) or growing towards a position of a senior scientist within our organization (long-term cooperation, involvement in multiple projects, supervision of junior scientists).

We offer:

- Full-time contract ("umowa o pracę"), guaranteed for at least one year
- Extension and increased funding available, depending on successful performance and grant/fellowship proposals
- Salary starting at ~8400 PLN/month of total gross remuneration, expected net salary at ~5900 PLN/month, with social security. Additional 13th salary after working a minimum of six months in a given calendar year
- Benefits including reduced-rate for an individual medical care package and membership in the MultiSport program
- Participation in courses, scientific training, support from peers, and academic mentoring
- Administrative and organizational support from professional English-speaking personnel
- Position with 100% focus on research (no teaching obligations)
- Appointment available from October 2019 or as soon as possible after that date

We require:

- Ph.D. in biology, chemistry, physics or related area
- Documented extensive experience in biochemical/biophysical analyses of biomacromolecules, including at least one of the following techniques: 1) X-ray crystallography, 2) SAXS 3) cryo-EM, 4) AFM
- Expertise and technical competence in designing and carrying out scientific experiments and in interpreting their results
- Proactive approach to achieving objectives, good interpersonal skills, collaborative and adaptive attitude
- Very good organizational skills
- Very good command of English (written and oral communication)
- Experience in RNA biochemistry will be a strong advantage

Priority will be given to candidates with expertise most relevant to the project and to the profile of the laboratory, who are familiar with our work and who can convincingly explain why their expertise is a good fit for our requirements.

The Postdoctoral Researcher will be selected from candidates in an open competition, according to the procedure complying with the rules of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers as a part of HR Excellence in Research strategy <https://www.iimcb.gov.pl/en/institute/hr-excellence>

How to apply:

- **Apply now** (before the deadline of September 14th, 2019) to employment@genesilico.pl
- In the subject include " IIMCB-RNA-3D-structure-determination" and your first and last name
- Your application must be submitted in English and should contain: 1) a CV, 2) a cover letter including a short description of your key achievements and explicit responses to the following questions: What are your scientific interests and how do they relate to requirements of the position offered? What are your key strengths? What do you know about our laboratory and why do you want to work with us?, 3) contacts to at least two potential referees, including your M.Sc. (or Ph.D.) supervisor. At this stage, please do not attach copies of diplomas, etc.
- Please include the following statement in your application: *"I hereby agree to the processing of my personal data, included in the application documents by the International Institute of Molecular and Cell Biology in Warsaw, 4 Księcia Trojdena Street, 02-109 Warsaw, for the purpose of carrying out the current recruitment process."* Your personal data will be processed for the purpose of the recruitment procedure by the International Institute of Molecular and Cell Biology in Warsaw. Full information is available under the link <https://www.iimcb.gov.pl/pl/information-clause>
- Best candidate(s) may be given additional questions and tasks as a part of the recruitment process
- The competition may be extended or repeated until a suitable candidate who fulfills all requirements is found