

**IBCH PAS RECRUITMENT PROCEDURE NO. 18/2025/SN
FOR THE POSITION OF A POSTDOCTORAL RESEARCH ASSISTANT**

INSTITUTION: Institute of Bioorganic Chemistry, Polish Academy of Sciences,
Department of Ribonucleoprotein Biochemistry
CITY: Poznań
POSITION: assistant professor (post-doc)
POSITIONS AVAILABLE: 1
SCIENTIFIC DISCIPLINE: biology
PUBLICATION DATE: 22.12.2025
APPLICATION DEADLINE: 26.01.2026
WEBSITE: <https://portal.ichb.pl/homepage/>

KEY WORDS: amyotrophic lateral sclerosis, frontotemporal dementia (ALS/FTD), pathogenesis of ALS/FTD, RNA-protein interactions, cryogenic electron microscopy, crystallography, structural biology

Principal Investigator: dr hab. Agnieszka Kiliszek

Research topic: A comprehensive structural and functional analysis of toxic RNA-protein interactions for better understanding and therapeutic targeting of amyotrophic lateral sclerosis and frontotemporal dementia

I. Project description

We offer a position as an assistant professor (post-doc) within the OPUS-28 (LAP) project, carried out in close collaboration with the Slovenian group led by Prof. Boris Rogelj from the Jožef Stefan Institute in Ljubljana, entitled: "Comprehensive structural and functional analysis of toxic RNA-protein interactions to improve understanding and therapeutic targeting of amyotrophic lateral sclerosis and frontotemporal dementia."

Our research focuses on the complex pathogenesis of two genetic diseases, ALS and FTD. In particular, we are interested in "toxic" RNA molecules whose structure and interactions with proteins located in the nucleus and cytoplasm lead to the dysfunction of nerve cells and, ultimately, to their death. Despite numerous studies, including our own, on the toxic RNA-protein interactome and the identification of more than a thousand proteins, the structural and mechanistic details of these interactions remain unknown. So far, no atomic model has been identified for complexes between mutated transcripts and the aggregation-prone proteins bound to them. Due to the large knowledge gap in this area of structural interactome research, the results obtained will have significant cognitive impact and strong potential for publication in high-impact-factor journals.

In this project, we will apply interdisciplinary approaches in structural biology (cryo-electron microscopy, cryoEM; crystallography), biophysical and biochemical methods, as well as functional studies conducted on human cells.

II. Requirements for the candidates:

1. A PhD degree in biology or chemistry or a related discipline.*
2. Well-documented research output in the form of research papers (Web of Science).
3. *Experience in applying biophysical and biochemical evaluation of biomolecules and the ability to work with RNA molecules and/or proteins (RNA synthesis, protein expression and purification; integrity and homogeneity analysis, etc.).*
4. *Knowledge in the areas of molecular biology, structural studies of biomolecules, RNA–protein interaction studies, the use of tools for generating in silico models, and issues related to the project's subject matter.*
5. *Ability to plan and conduct experiments and to visualize results.*
6. *Ability to make responsible decisions without supervision and adaptation to teamwork.*
7. *English language proficiency enabling effective communication, reading of scientific literature, and preparation of publications.*
8. *Experience in crystallographic analysis or cryoEM will be considered an advantage, but is not a prerequisite.**

*According to NCN requirements, only individuals who obtained a doctoral degree no earlier than 12 years before the year of employment in the project may be admitted. This period may be extended by the time spent on long-term (over 90 days) documented sickness benefits or rehabilitation benefits due to incapacity for work. Additionally, the period may be extended by the number of months spent on leave for the care and upbringing of children, as specified under the Labor Code. For women, this period may also be increased by 18 months for each born or adopted child if this method of accounting for breaks in the scientific career is more advantageous.

Furthermore, according to NCN requirements, individuals who obtained a doctoral degree at an institution other than the Institute of Bioorganic Chemistry of the Polish Academy of Sciences, or those who earned the degree at ICHB PAN but completed a continuous, documented postdoctoral internship of at least 10 months at an institution other than the project-implementing entity and in a country different from where the doctoral degree was obtained, may be admitted.

III. Duties in the project:

1. Designing and conducting experimental work.
2. Preparing RNA–protein complexes for structural analysis and for biophysical and biochemical evaluation.
3. Biophysical and biochemical evaluation of RNA–protein complexes.
4. Crystallographic or cryo-EM analysis (after training) of RNA–protein complexes.
5. Processing and interpreting results, preparing summaries/reports, and scientific publications.
6. Supervising the work of students/PhD candidates, presenting results at seminars, scientific meetings, and conferences.

IV. Required documents:

1. Cover letter of application to the Director of IBCH PAS featuring contact details to at least two referees.
2. Copy of the doctoral diploma.
3. CV featuring information on the candidate's scientific track record, including:
 - the list of papers published in journals listed in the Web of Science (WoS) database, stating the IF in accordance with WoS, number of citations and the H-index;
 - list of patents;
 - information on the previously managed projects or participation in project implementation;
 - information on the accomplished research internships;
 - information on the awarded prizes and distinctions.

V. Applications should be submitted via the eRecruiter portal at:

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=658bfda9b2b8410a8261f48307d2ea1d>

VI. The submission deadline is **26.01.2026**

VII. Selection of candidates:

Following preliminary verification, on the basis of the application documents, selected candidates will be invited to an interview, as a result of which a candidate recommended for employment shall be appointed. The main criteria, taken into consideration during the selection of the candidates, will be: (i) research output (research papers published), (ii) compliance of the previous experience with the tasks planned within the framework of the project, (iii) experience gained during internships.

VIII. The recruitment procedure shall be concluded no later than on **1.03.2026**.

IX. Additional Information:

Employment is available 02.02.2026 The position is available for the period of 48 months. The estimated gross salary is ca. 9 450,00 PLN/month. Employment will be in accordance with the provisions of the Labor Code.

For additional information please contact the Principal Investigator:

Assoc. Prof. Agnieszka Kiliszek, PhD, DSc

e-mail: kiliszek@ibch.poznan.pl

Information clause:

Pursuant to the stipulations of the regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), further referred to as GDPR, we hereby inform that:

- The Institute of Bioorganic Chemistry, Polish Academy of Sciences, seated in Noskowskiego St. 12/14, 61-704 Poznan; REGON 000849327, NIP 777-00-02-062 is the administrator of the collected personal data (further referred to as the Institute).
- The Administrator appointed a Data Protection Officer, who can be contacted in writing, via traditional mail, by sending a letter to the following address: Z. Noskowskiego St. 12/14, 61-704 Poznan, or by sending an e-mail to: dpo@ibch.poznan.pl.
- The personal data of the candidates is processed for the purposes of fulfilling the tasks of the administrator, associated with conducting the recruitment procedure for a vacant position.
- The legal basis for processing personal data is the Act of 26 June 1974 – The Labor Code, Act of 30 April 2010 on the Polish Academy of Sciences or the consent of the person whose data shall be subjected to processing.
- Your personal data shall be subjected to processing for period of 3 months upon the date of decision of the recruitment committee. Following this period, the data will be irretrievably and effectively destroyed.
- The personal data of the candidates shall not be transferred to any third country.
- The person whose data shall be subjected to processing has the right to:
 - request access to his/her personal data, and to amend it or delete it, pursuant to articles 15-17 of GDPR;
 - limit data processing, in the events stipulated in article 18 of GDPR;
 - data transferring, pursuant to article 20 of GDPR;
 - withdraw consent at any moment, without influencing compliance with the law of the processing that was executed prior to consent withdrawal;
 - file a complaint to the Inspector General for Personal Data Protection.

Providing personal data in the scope stipulated in article 22 (1) of the Act of 26 June 1974 – The Labor Code is mandatory, whereas providing data in a broader scope is voluntary and requires consent for its processing.

Protection for whistleblowers

In the case of reporting violations using a dedicated system for whistleblowers, the reporting person's data will be processed in accordance with applicable provisions on the protection of personal data, including the above-mentioned Regulation (EU 2016/679 of 27 April 2016). We ensure confidentiality and protection of the identity of reporting persons, and that their data will not be disclosed without their consent, unless the law provides otherwise.

Detailed rules regarding the protection of personal data and procedures for reporting violations of the law can be found in our Regulations on internal reporting at the Institute of Bioorganic Chemistry, Polish Academy of Sciences, available at the link: <https://portal.ichb.pl/wp-content/uploads/2024/10/INTERNALREPORTINGREGULATIONS.pdf>